Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 4	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 5	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 6	SEP 11	CA/CAplus enhanced with more pre-1907 records
NEWS 7	SEP 21	CA/CAplus fields enhanced with simultaneous left and right truncation
NEWS 8	SEP 25	CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 9	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11	SEP 28	CEABA-VTB classification code fields reloaded with new classification scheme
NEWS 12	OCT 19	LOGOFF HOLD duration extended to 120 minutes
NEWS 13	OCT 19	E-mail format enhanced
NEWS 14	OCT 23	Option to turn off MARPAT highlighting enhancements available
NEWS 15	OCT 23	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 16	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 17	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 18	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 19	NOV 10	CA/CAplus F-Term thesaurus enhanced
NEWS 20	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 21	NOV 13	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 22	NOV 20	CAS Registry Number crossover limit increased to 300,000 in additional databases
NEWS 23	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS 24	NOV 20	CA/CAplus patent kind codes will be updated

NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:24:44 ON 27 NOV 2006

=> ile regf
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:25:01 ON 27 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 NOV 2006 HIGHEST RN 913953-45-4
DICTIONARY FILE UPDATES: 26 NOV 2006 HIGHEST RN 913953-45-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

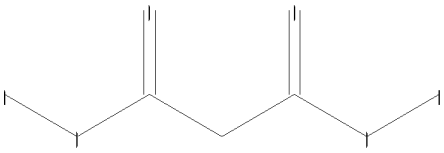
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

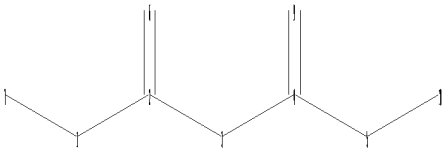
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10531382\10531382 generic.str





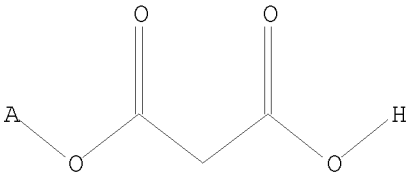
chain nodes :
1 2 3 4 5 6 7 9 10
chain bonds :
1-2 1-7 2-3 2-6 3-4 4-5 4-9 5-10
exact/norm bonds :
1-2 1-7 2-6

exact bonds :
2-3 3-4 5-10
normalized bonds :
4-5 4-9

Hydrogen count :
3:>= minimum 2 5:>= minimum 1
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 14:28:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   24708 TO ITERATE

  8.1% PROCESSED   2000 ITERATIONS   2 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

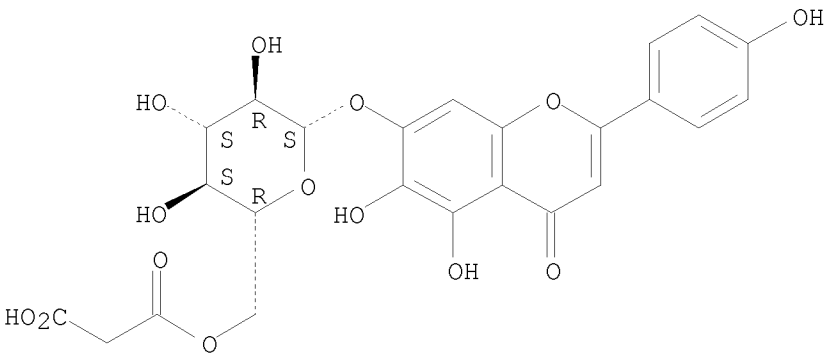
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 484755 TO   503565
PROJECTED ANSWERS: 196 TO   792

L2   2 SEA SSS SAM L1

=> d scan

L2   2 ANSWERS   REGISTRY COPYRIGHT 2006 ACS on STN
IN   4H-1-Benzopyran-4-one, 7-[[6-O-(carboxyacetyl)-β-D-
     glucopyranosyl]oxy]-5,6-dihydroxy-2-(4-hydroxyphenyl)- (9CI)
MF   C24 H22 O14

Absolute stereochemistry.

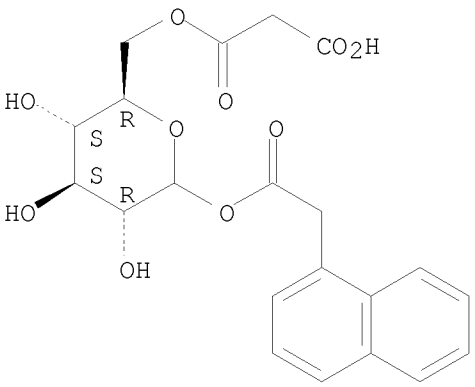


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-Glucopyranose, 6-(hydrogen propanedioate) 1-(1-naphthaleneacetate) (9CI)
MF C21 H22 O10

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l1 sss full
FULL SEARCH INITIATED 14:28:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 490346 TO ITERATE

100.0% PROCESSED 490346 ITERATIONS 987 ANSWERS
SEARCH TIME: 00.00.04

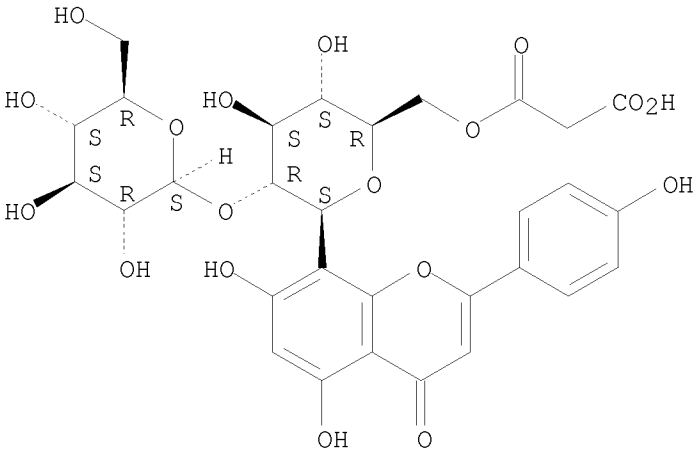
L3 987 SEA SSS FUL L1

=> d l3

L3 ANSWER 1 OF 987 REGISTRY COPYRIGHT 2006 ACS on STN

RN 911697-85-3 REGISTRY
ED Entered STN: 31 Oct 2006
CN 4H-1-Benzopyran-4-one, 8-[6-O-(carboxyacetyl)-2-O-β-D-glucopyranosyl-β-D-glucopyranosyl]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H32 O18
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

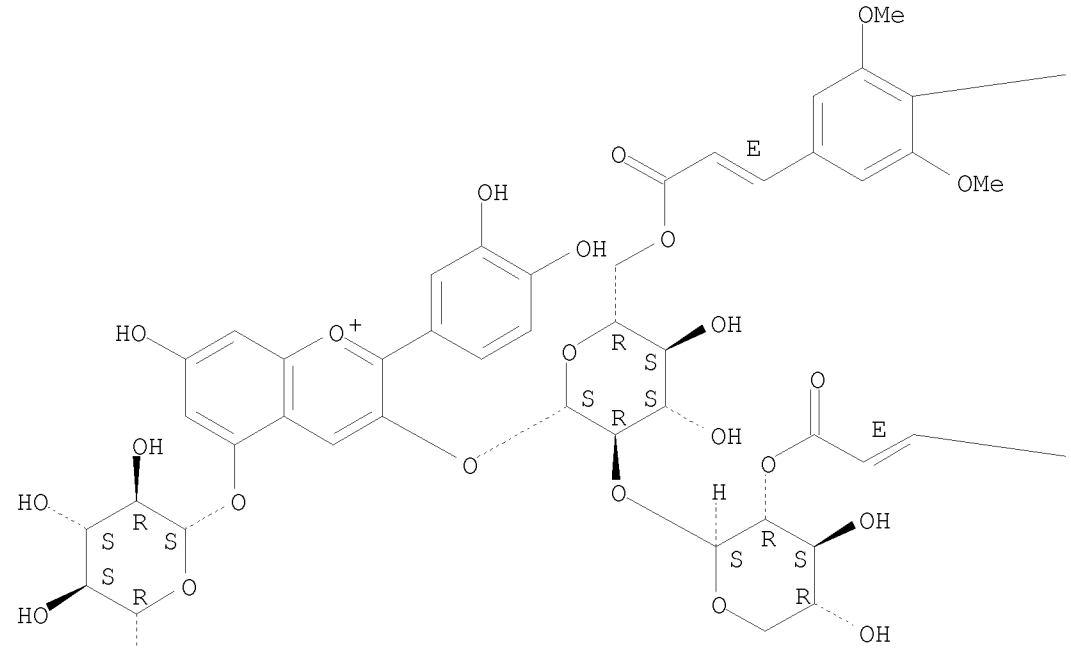
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d scan

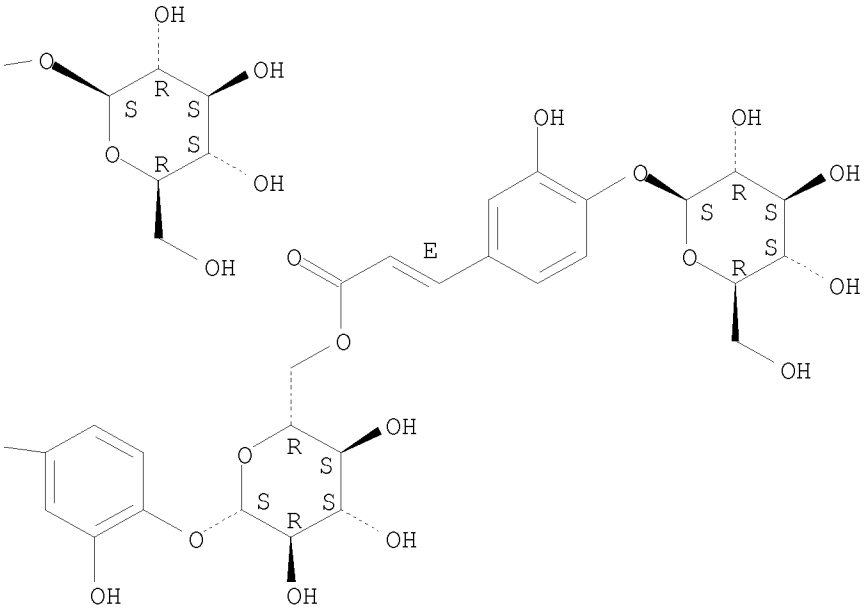
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 5-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-3-[[2-O-[2-O-[(2E)-3-[4-[[6-O-[(2E)-3-[4-(β-D-glucopyranosyloxy)-3-hydroxyphenyl]-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]-3-hydroxyphenyl]-1-oxo-2-propenyl]-β-D-xylopyranosyl]-6-O-[(2E)-3-[4-(β-D-glucopyranosyloxy)-3,5-dimethoxyphenyl]-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]-7-hydroxy- (9CI)
MF C82 H93 O48

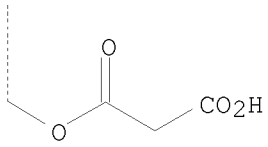
Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



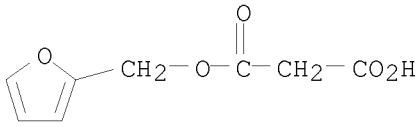
PAGE 1-B





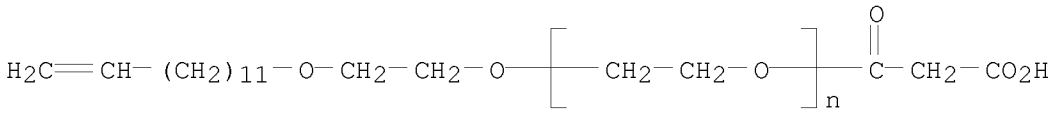
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Furfuryl alcohol, malonate (6CI)
MF C8 H8 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(carboxyacetyl)-ω-[dodecyl-2-(12-tridecenyloxy)ethoxy]- (9CI)
MF (C2 H4 O)n C30 H56 O5
CI IDS, PMS, COM

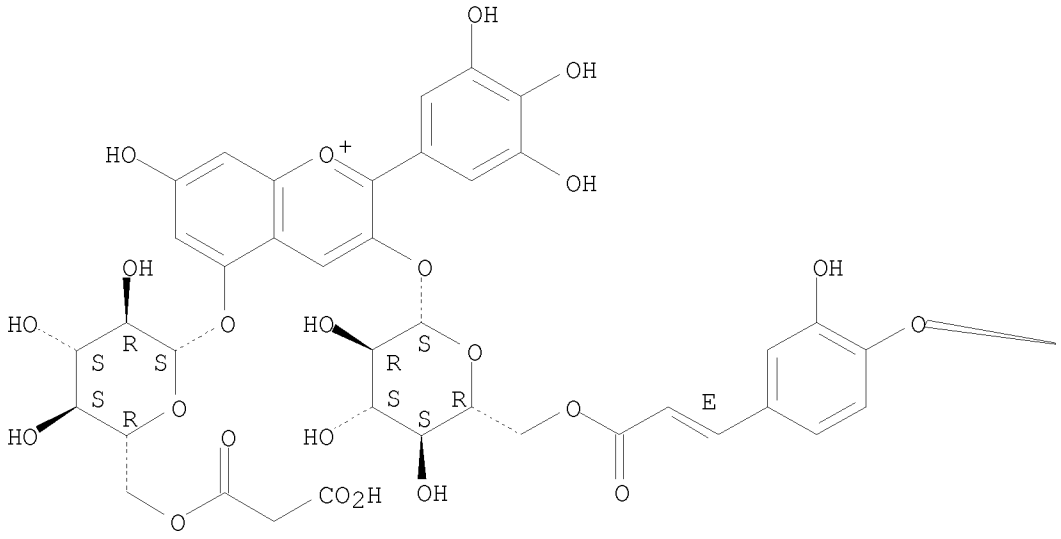


D1—($C_{12}H_{25}$)

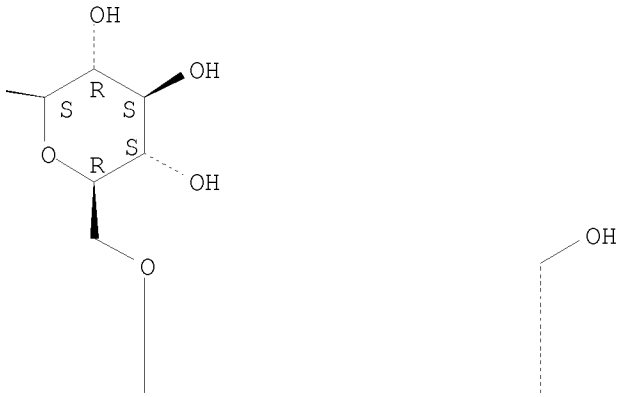
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 5-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-3-[[6-O-[(2E)-3-[4-[[6-O-[(2E)-3-[4-(β-D-glucopyranosyloxy)-3-hydroxyphenyl]-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]-3-hydroxyphenyl]-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]-7-hydroxy-2-(3,4,5-trihydroxyphenyl)- (9CI)
MF C60 H65 O36
CI COM

Absolute stereochemistry.
Double bond geometry as shown.

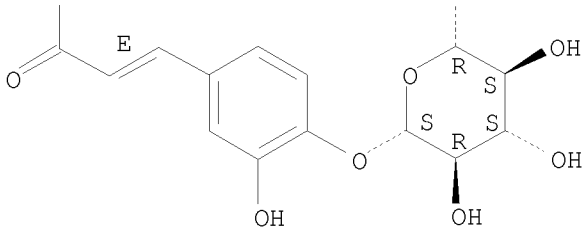
PAGE 1-A



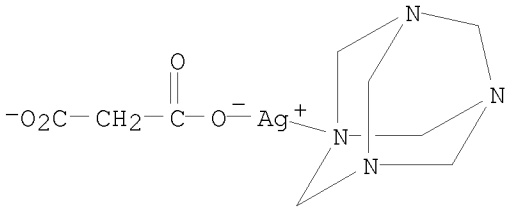
PAGE 1-B



PAGE 2-B



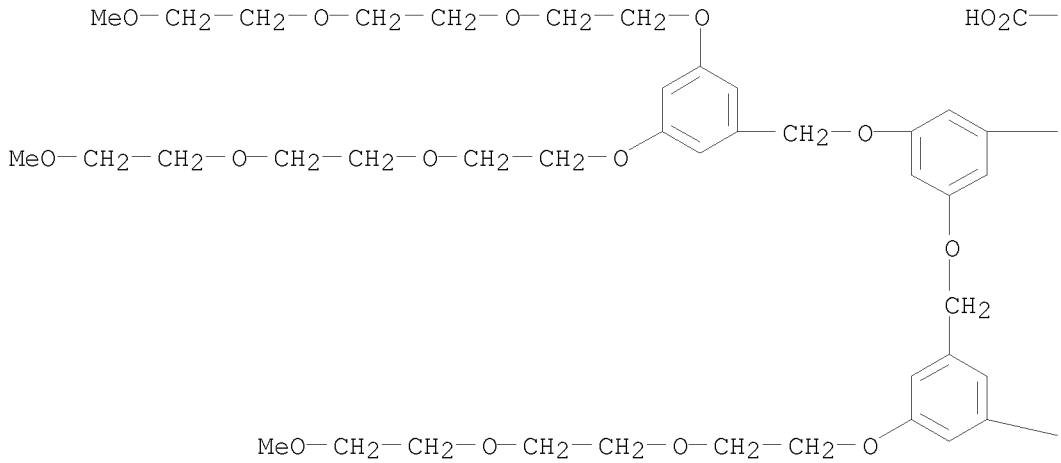
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Argentate(1-), [propanedioato(2-)-κO](1,3,5,7-tetraazatricyclo[3.3.1.13,7]decane-κN1)- (9CI)
MF C9 H14 Ag N4 O4
CI CCS, COM

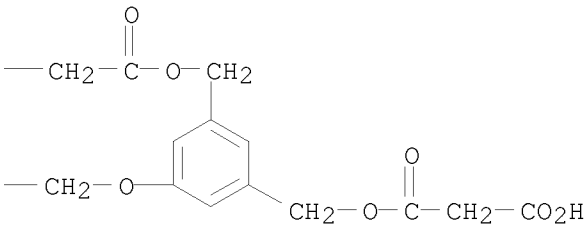


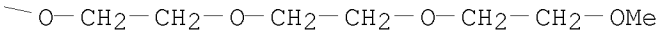
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1,3-Benzenediol, 5-(hydroxymethyl)-, homopolymer, ester with [5-[[3,5-bis[[3,5-bis[2-[2-(2-methoxyethoxy)ethoxy]ethoxy]phenyl]methoxy]phenyl]methoxy]-1,3-phenylene]bis(methylene) bis(hydrogen propanedioate) (2:1) (9CI)
MF C63 H88 O27 . 2 (C7 H8 O3)x

CM 1

PAGE 1-A

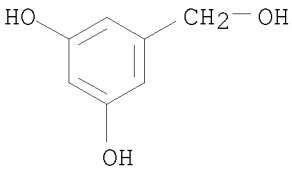






CM 2

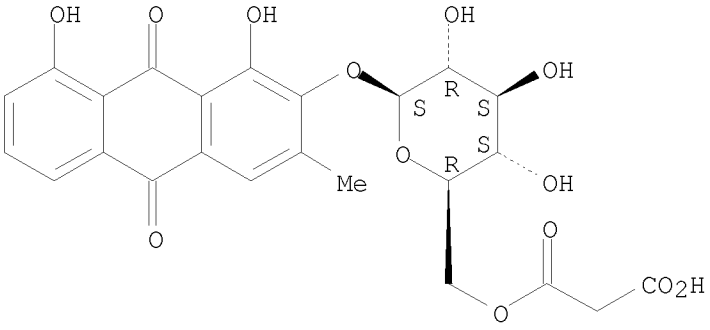
CM 3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

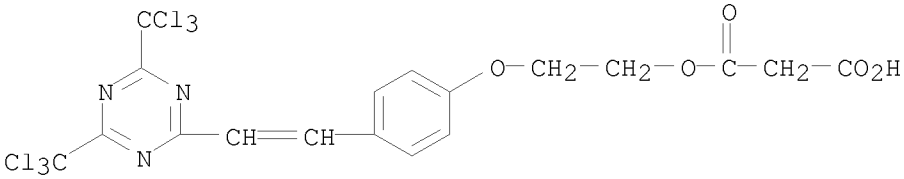
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 9,10-Anthracenedione, 2-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-1,8-dihydroxy-3-methyl- (9CI)
MF C24 H22 O13

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[4-[2-[4,6-bis(trichloromethyl)-1,3,5-triazin-2-yl]ethenyl]phenoxy]ethyl] ester (9CI)
MF C18 H13 Cl6 N3 O5

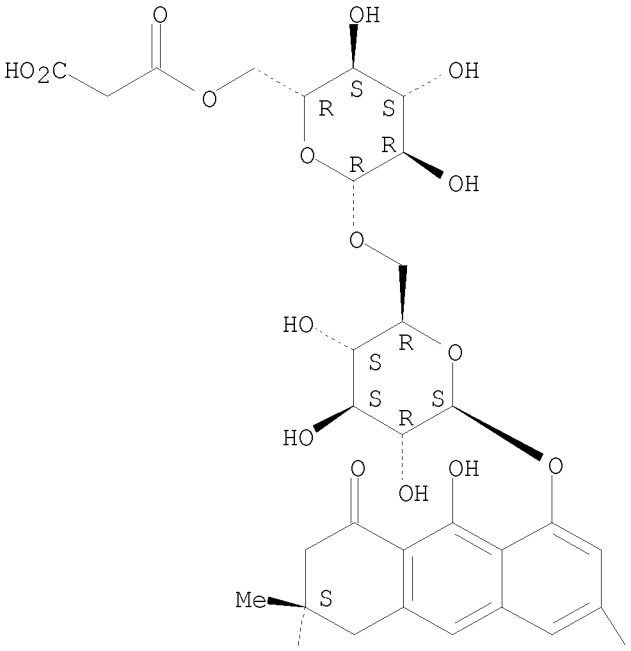


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1(2H)-Anthracenone, 8-[[6-O-[6-O-(carboxyacetyl)-β-D-glucopyranosyl]-β-D-glucopyranosyl]oxy]-3,4-dihydro-3,9-dihydroxy-6-methoxy-3-methyl-, (3S)- (9CI)
MF C31 H38 O18

Absolute stereochemistry. Rotation (-).

PAGE 1-A

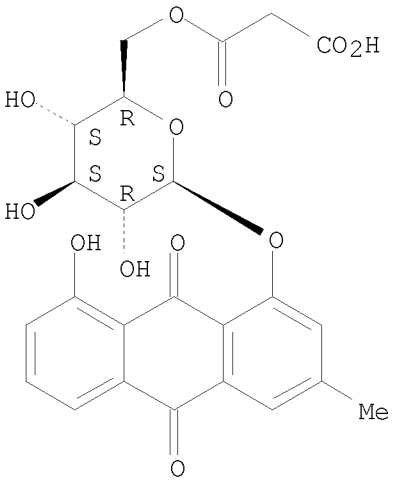


PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 9,10-Anthracenedione, 1-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-8-hydroxy-3-methyl- (9CI)
MF C24 H22 O12

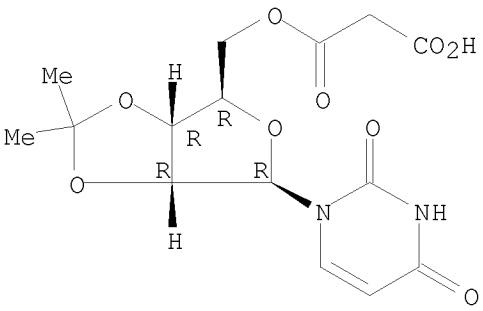
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Uridine, 2',3'-O-(1-methylethylidene)-, 5'-(hydrogen propanedioate) (9CI)
MF C15 H18 N2 O9

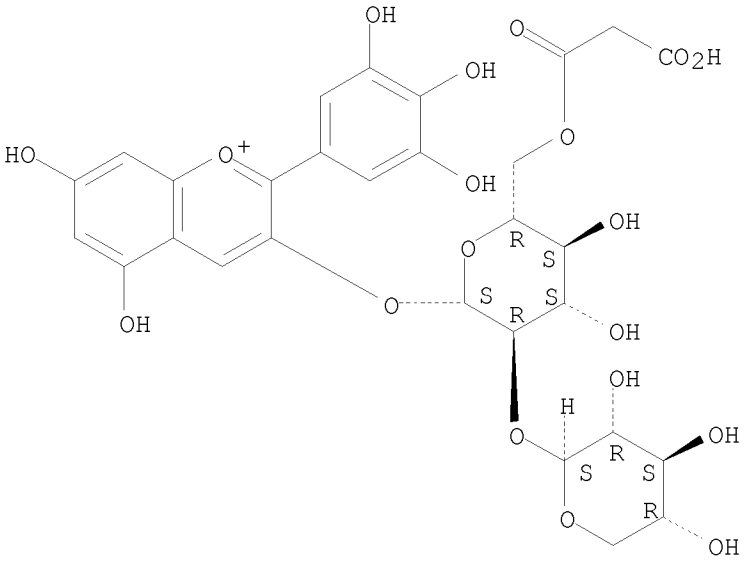
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

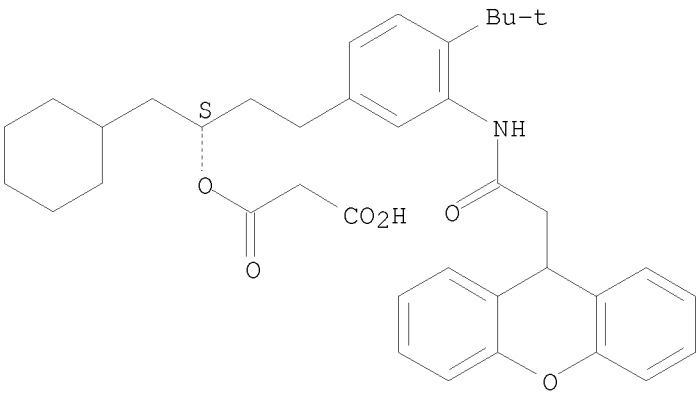
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 3-[[6-O-(carboxyacetyl)-2-O-β-D-xylopyranosyl-β-D-glucopyranosyl]oxy]-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)- (9CI)
MF C29 H31 O19

Absolute stereochemistry.



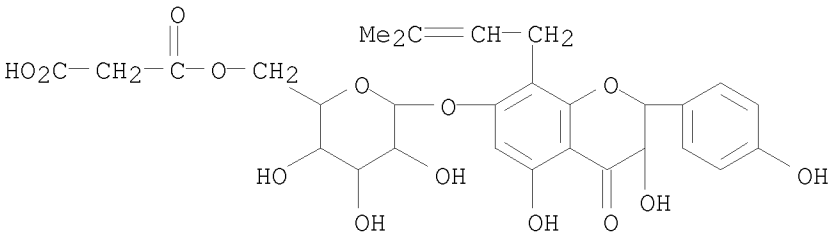
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[1-(cyclohexylmethyl)-3-[4-(1,1-dimethylethyl)-3-[(9H-xanthen-9-ylacetyl)amino]phenyl]propyl] ester, (S)- (9CI)
MF C38 H45 N O6
CI COM

Absolute stereochemistry.



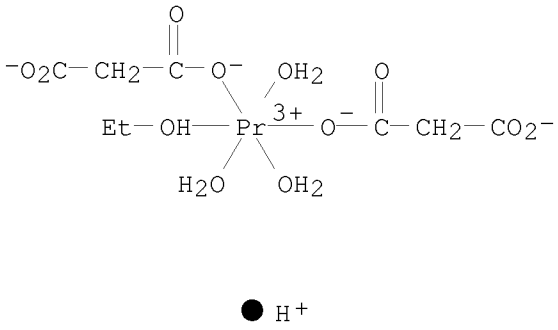
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4H-1-Benzopyran-4-one, 7-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-2,3-dihydro-3,5-dihydroxy-2-(4-hydroxyphenyl)-8-(3-methyl-2-butenyl)-, (2R-trans)- (9CI)
MF C29 H32 O14

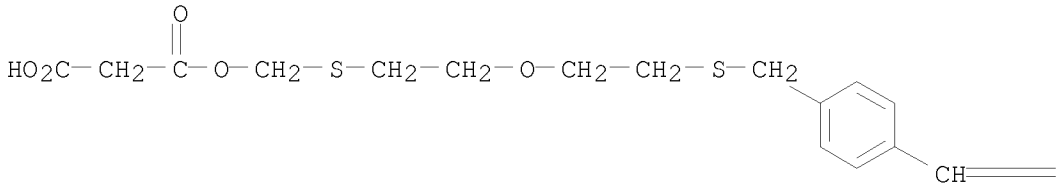


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Praseodymate(1-), triaqua(ethanol)bis[propanedioato(2-)-O]-, hydrogen (9CI)
MF C8 H16 O12 Pr . H
CI CCS



L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[2-[2-[[(4-ethenylphenyl)methyl]thio]ethoxy]ethyl]thio]methyl] ester (9CI)
MF C17 H22 O5 S2

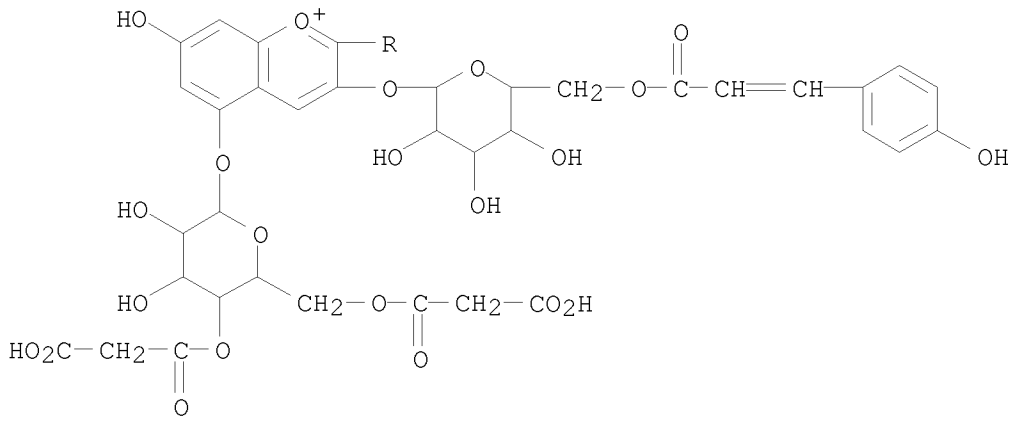


PAGE 1-B

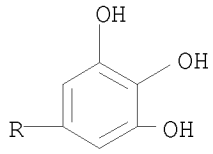
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 5-[[4,6-bis-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-7-hydroxy-3-[[5-O-[(2E)-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]-2-(3,4,5-trihydroxyphenyl)-, chloride (9CI)
MF C42 H41 O25 . Cl

PAGE 1-A



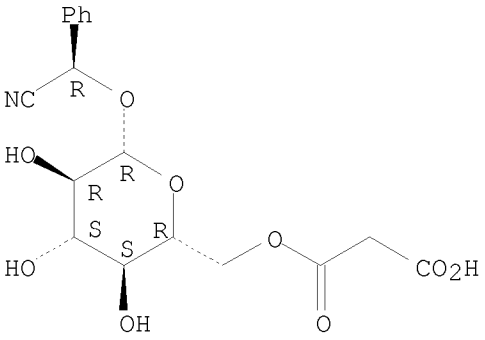
PAGE 2-A



L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Benzeneacetonitrile, α-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-, (αR)- (9CI)

MF C17 H19 N O9

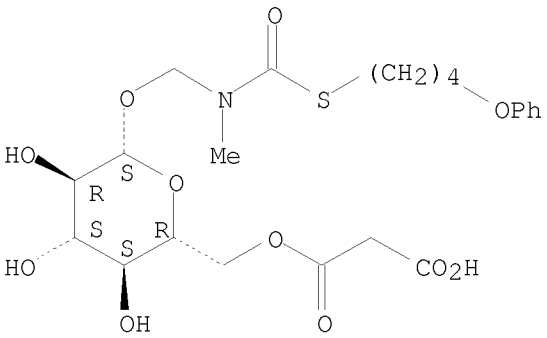
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Carbamothioic acid, [[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]methyl]methyl-, S-(4-phenoxybutyl) ester (9CI)
MF C22 H31 N O11 S

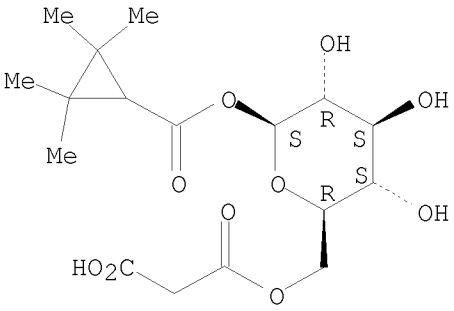
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

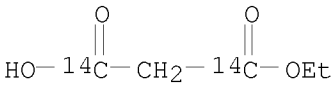
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN β-D-Glucopyranose, 6-(hydrogen propanedioate) 1-(2,2,3,3-tetramethylcyclopropanecarboxylate) (9CI)
MF C17 H26 O10

Absolute stereochemistry.



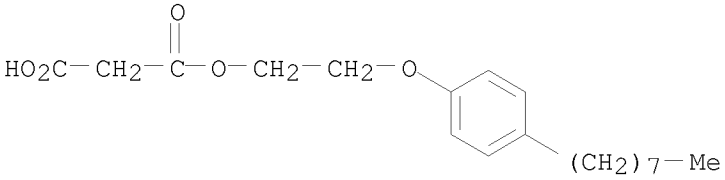
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic-1,3-14C2 acid, monoethyl ester (9CI)
MF C5 H8 O4



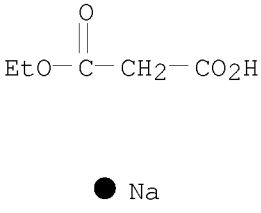
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-(4-octylphenoxy)ethyl] ester (9CI)
MF C19 H28 O5

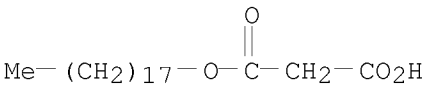


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, monoethyl ester, sodium salt (9CI)
MF C5 H8 O4 . Na

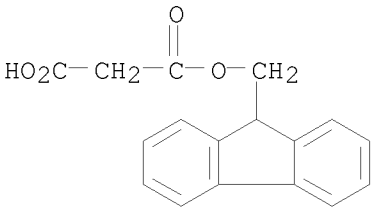


L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, monooctadecyl ester (9CI)
MF C21 H40 O4



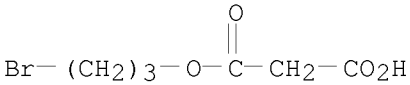
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono(9H-fluoren-9-ylmethyl) ester (9CI)
MF C17 H14 O4



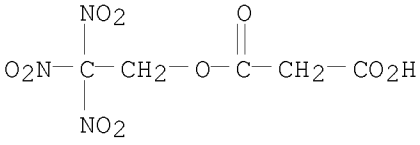
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Propanol, 3-bromo-, malonate (7CI)
MF C6 H9 Br O4



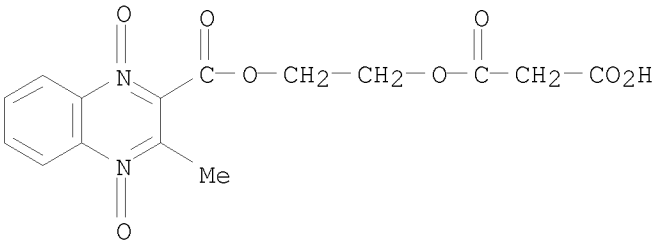
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono(2,2,2-trinitroethyl) ester (9CI)
MF C5 H5 N3 O10



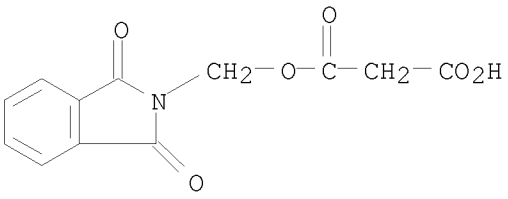
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[[(3-methyl-1,4-dioxido-2-quinoxalinyl)carbonyl]oxy]ethyl] ester (9CI)
MF C15 H14 N2 O8
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

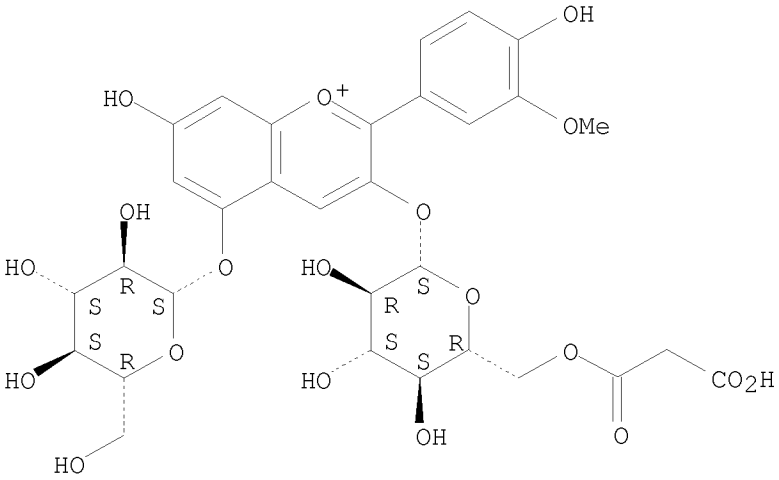
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl] ester (9CI)
MF C12 H9 N O6
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 3-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-5-(β-D-glucopyranosyloxy)-7-hydroxy-2-(4-hydroxy-3-methoxyphenyl)- (9CI)
MF C31 H35 O19

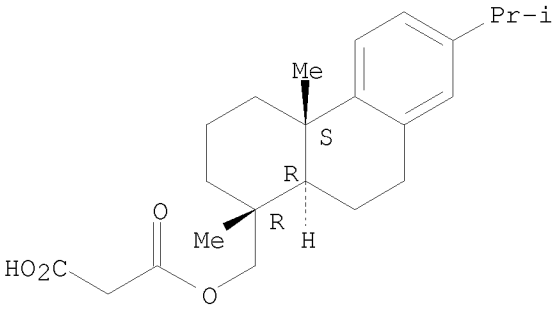
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

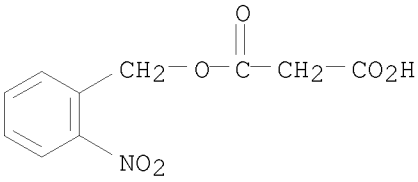
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[(1R,4aS,10aR)-1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-phenanthrenyl]methyl] ester (9CI)
MF C23 H32 O4

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[(2-nitrophenyl)methyl] ester (9CI)
MF C10 H9 N O6

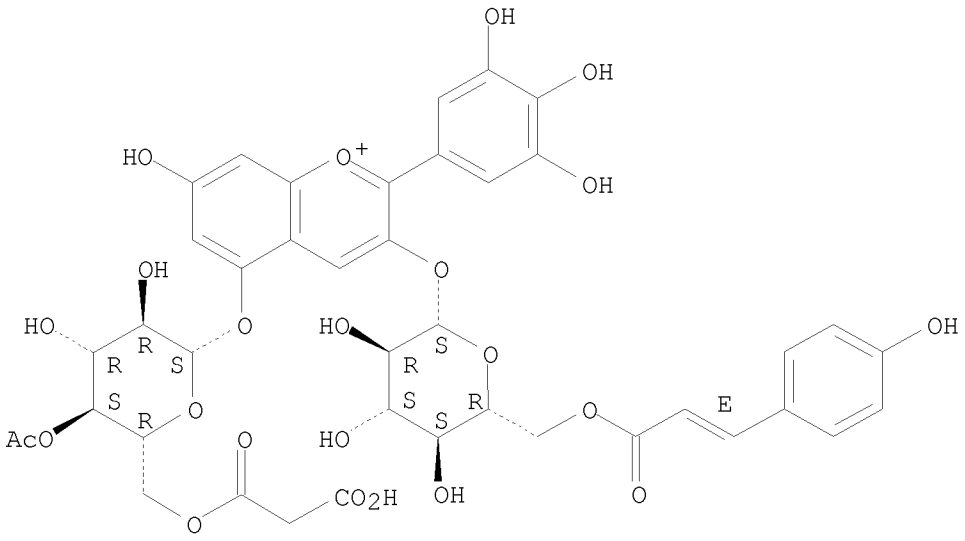


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 5-[[4-O-acetyl-6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-7-hydroxy-3-[[6-O-[(2E)-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]-2-(3,4,5-trihydroxyphenyl)-, chloride (9CI)
MF C41 H41 O23 . Cl

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



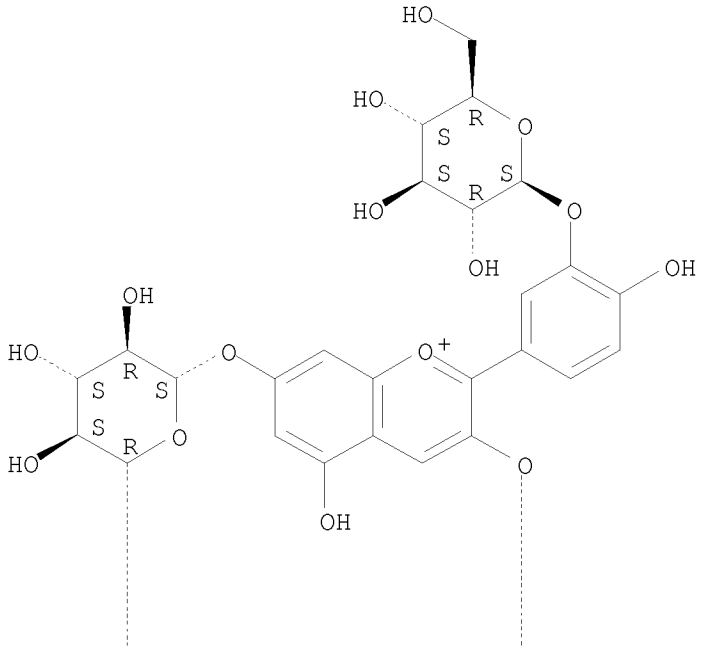
PAGE 2-A

● Cl^-

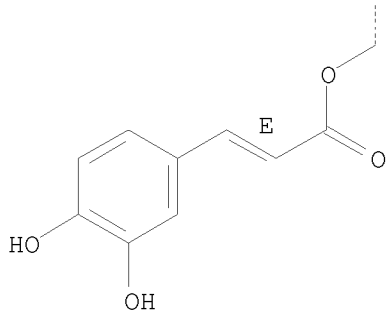
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 3-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-7-[[6-O-[(2E)-3-(3,4-dihydroxyphenyl)-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]-2-[3-(β-D-glucopyranosyloxy)-4-hydroxyphenyl]-5-hydroxy- (9CI)
MF C45 H49 O27

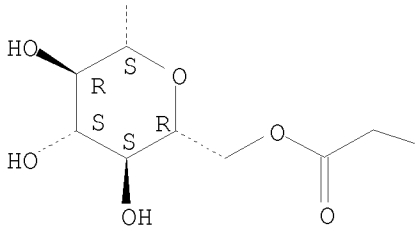
Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A

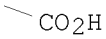


PAGE 2-A



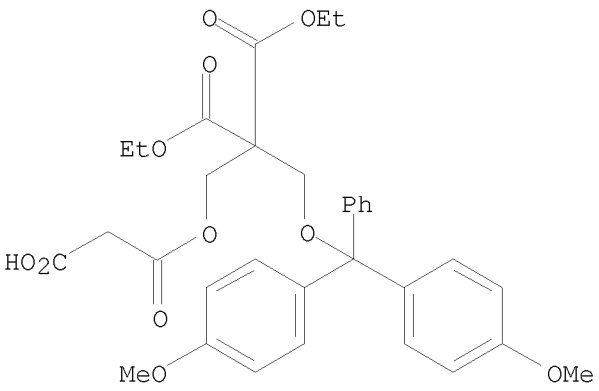


PAGE 2-B

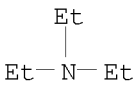


L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, [[bis(4-methoxyphenyl)phenylmethoxy]methyl][[(carboxyacetyl)oxy]methyl]-, 1,3-diethyl ester, compd. with N,N-diethylethanamine (1:1) (9CI)
MF C33 H36 O11 . C6 H15 N

CM 1

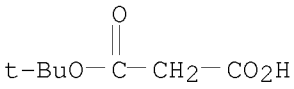


CM 2



L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Phenol, ethenyl-, homopolymer, 1,1-dimethylethyl propanedioate (9CI)
MF (C8 H8 O)x . x C7 H12 O4

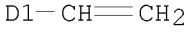
CM 1



CM 2

CM 3

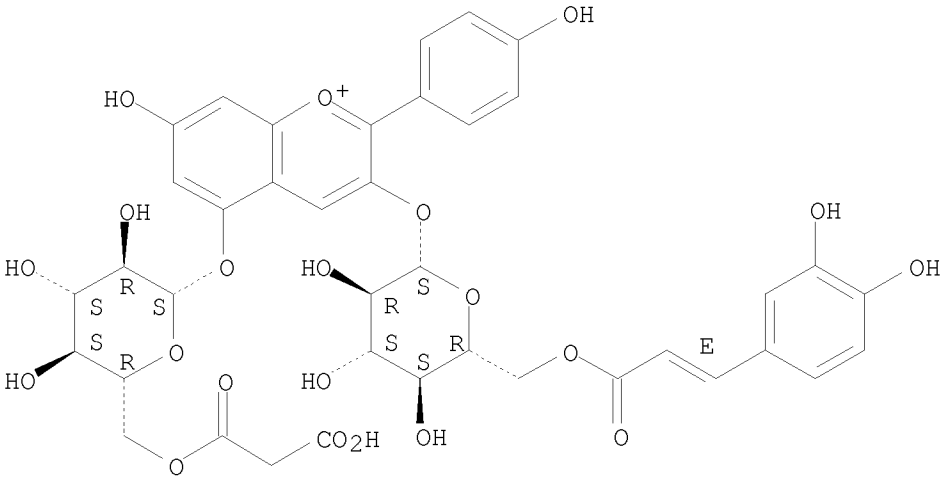
D1—OH



L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 5-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-3-[[6-O-[(2E)-3-(3,4-dihydroxyphenyl)-1-oxo-2-propenyl]-β-D-

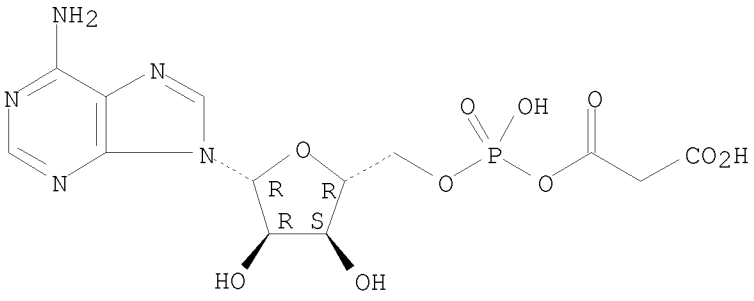
glucopyranosyl]oxy]-7-hydroxy-2-(4-hydroxyphenyl)- (9CI)
MF C39 H39 O21
CI COM

Absolute stereochemistry.
Double bond geometry as shown.



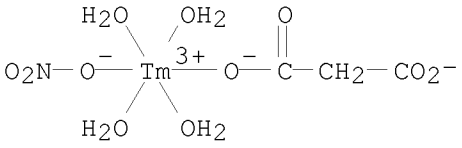
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5'-Adenylic acid, monoanhydride with propanedioic acid (9CI)
MF C13 H16 N5 O10 P

Absolute stereochemistry.

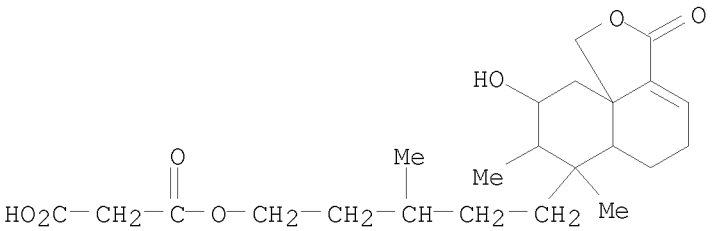


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Thulium, tetraaqua(nitrato-O)[propanedioato(2-)-O]- (9CI)
MF C3 H10 N O11 Tm
CI CCS



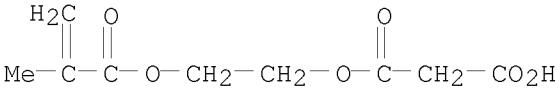
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[3-methyl-5-(3,5,6,6a,7,8,9,10-octahydro-9-hydroxy-7,8-dimethyl-3-oxo-1H-naphtho[1,8a-c]furan-7-yl)pentyl] ester (9CI)
MF C23 H34 O7



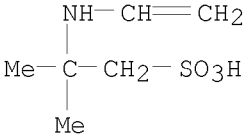
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-(ethenylamino)-2-methyl-1-propanesulfonic acid and methyl 2-propenoate (9CI)
MF (C9 H12 O6 . C6 H13 N O3 S . C4 H6 O2)x
CI PMS

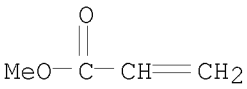
CM 1



CM 2



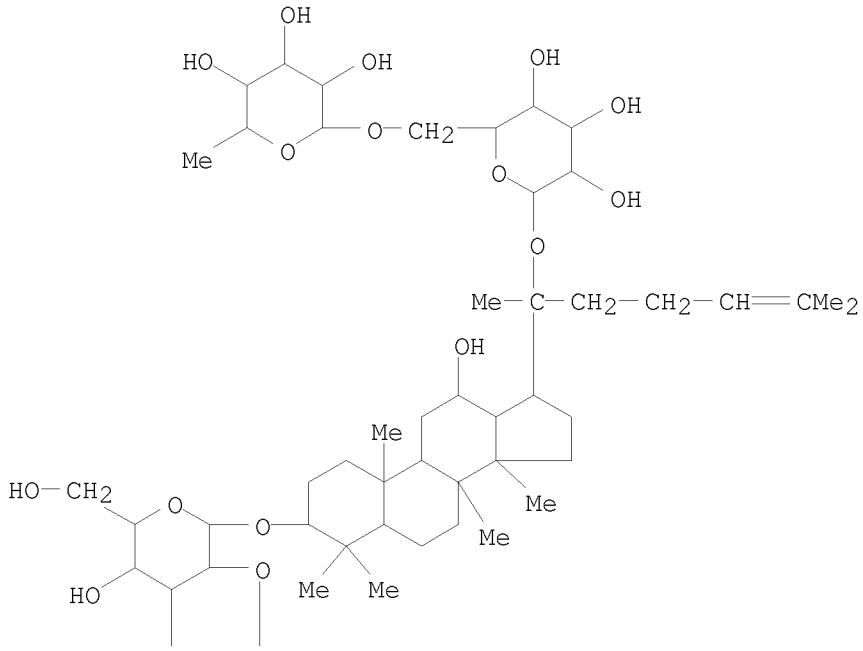
CM 3



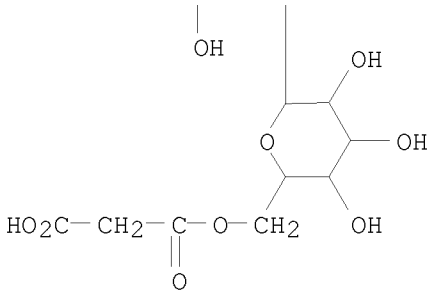
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN β-D-Glucopyranoside, (3β,12β)-20-[[6-O-(6-deoxy-α-L-mannopyranosyl)-β-D-glucopyranosyl]oxy]-12-hydroxydammar-24-en-3-yl 2-O-[6-O-(carboxyacetyl)-β-D-glucopyranosyl]- (9CI)
MF C57 H94 O25

PAGE 1-A



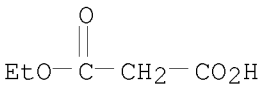
PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

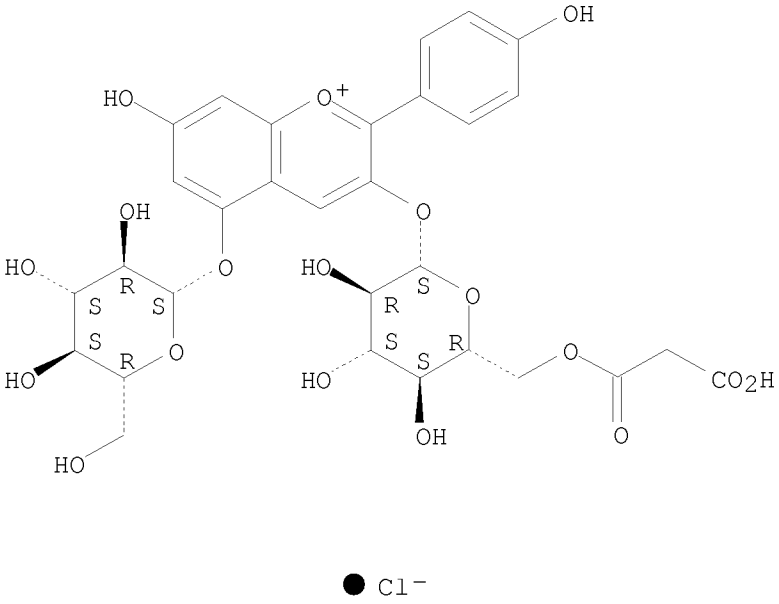
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, monoethyl ester, homopolymer (9CI)
MF (C5 H8 O4)x
CI PMS

CM 1



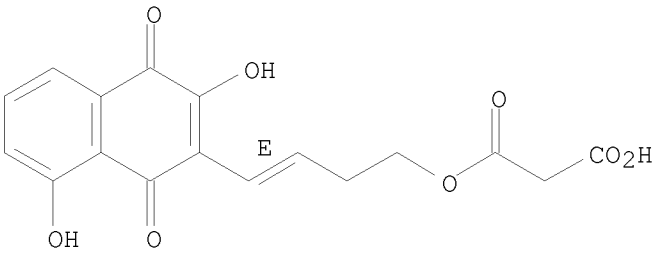
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 3-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-5-(β-D-glucopyranosyloxy)-7-hydroxy-2-(4-hydroxyphenyl)-, chloride (9CI)
MF C30 H33 O18 . Cl

Absolute stereochemistry.



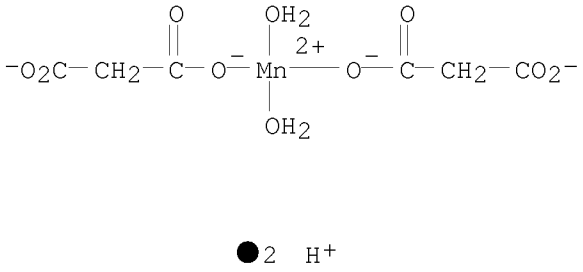
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[(3E)-4-(1,4-dihydro-3,8-dihydroxy-1,4-dioxo-2-naphthalenyl)-3-butenyl] ester (9CI)
MF C17 H14 O8

Double bond geometry as shown.

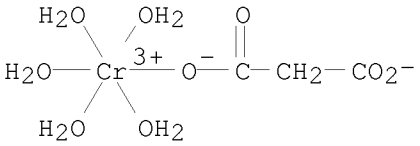


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

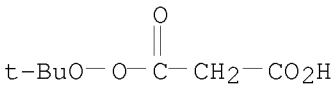
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Manganate(2-), diaquabis[propanedioato(2-)-O]-, dihydrogen (9CI)
MF C6 H8 Mn O10 . 2 H
CI CCS, COM



L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Chromium(1+), pentaaqua[propanedioato(2-)-O1]-, monohydrogen, (OC-6-22)-(9CI)
MF C3 H12 Cr O9 . H
CI CCS



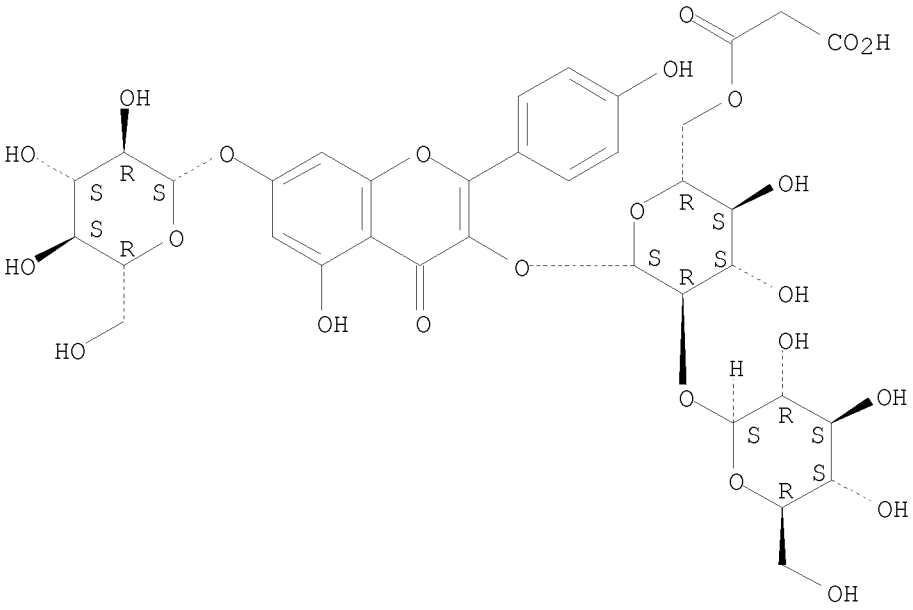
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Malonic monoperoxyacid, OO-tert-butyl ester (7CI, 8CI)
MF C7 H12 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

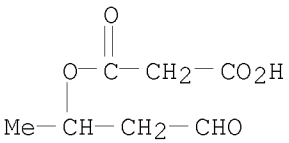
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4H-1-Benzopyran-4-one, 3-[[6-O-(carboxyacetyl)-2-O-β-D-glucopyranosyl-β-D-glucopyranosyl]oxy]-7-(β-D-glucopyranosyloxy)-5-hydroxy-2-(4-hydroxyphenyl)- (9CI)
MF C36 H42 O24

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

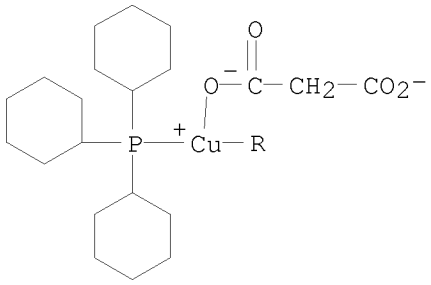
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Aldol, malonate (5CI)
MF C7 H10 O5



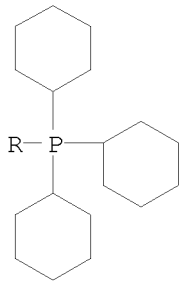
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Cuprate(1-), [propanedioato(2-)-O]bis(tricyclohexylphosphine)- (9CI)
MF C39 H68 Cu O4 P2
CI CCS, COM

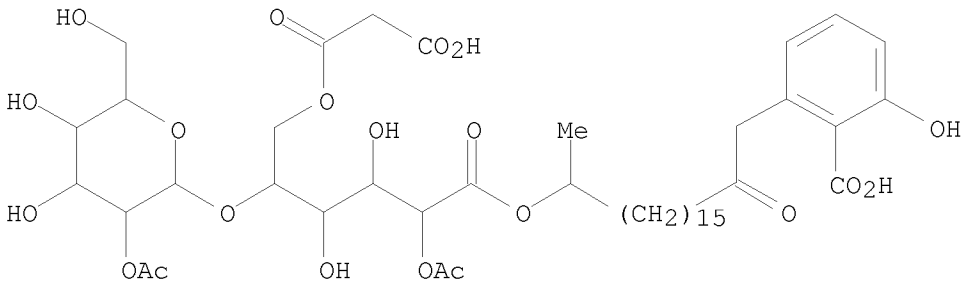
PAGE 1-A



PAGE 2-A



L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hexonic acid, 5-O-(2-O-acetylhexopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyl-17-oxooctadecyl ester, 2-acetate 6-(hydrogen propanedioate) (9CI)
MF C45 H68 O21



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 3-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-5-

hydroxy-2-[4-hydroxy-3-[[6-O-[(2E)-3-[3-hydroxy-4-[[6-O-[(2E)-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]phenyl]-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]phenyl]-7-[[6-O-[(2E)-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]- (9CI)

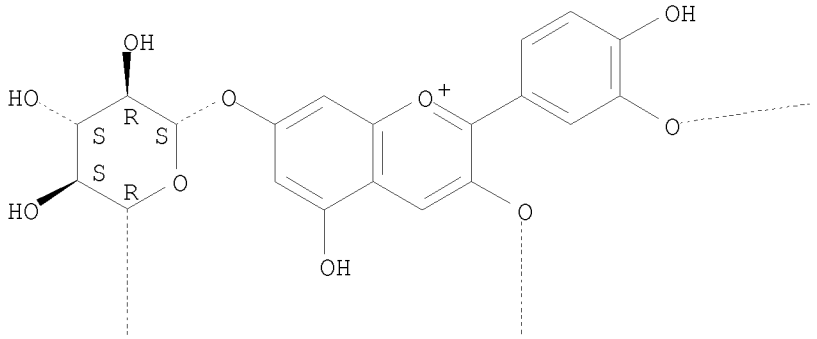
MF C69 H71 O36

CI COM

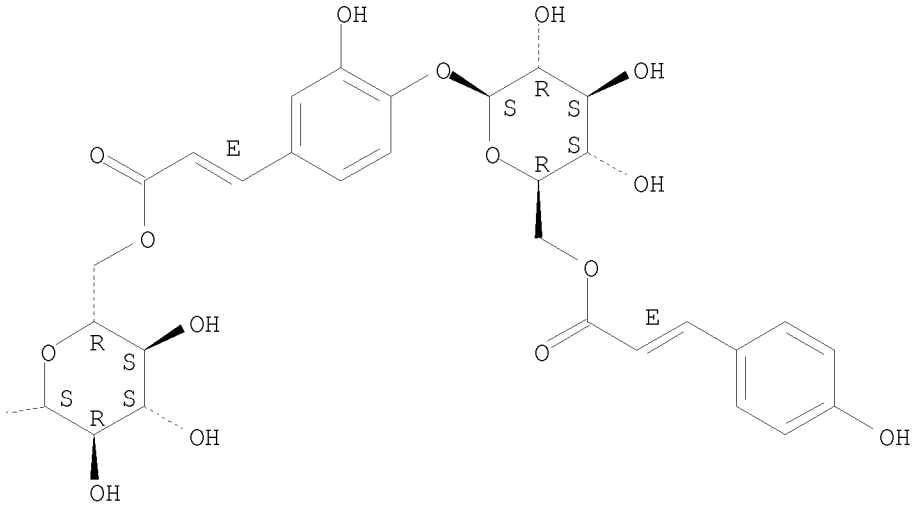
Absolute stereochemistry.

Double bond geometry as shown.

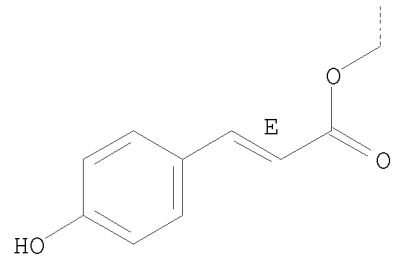
PAGE 1-A

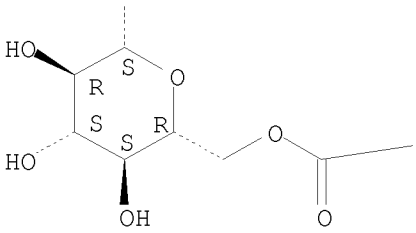


PAGE 1-B

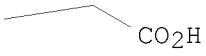


PAGE 2-A



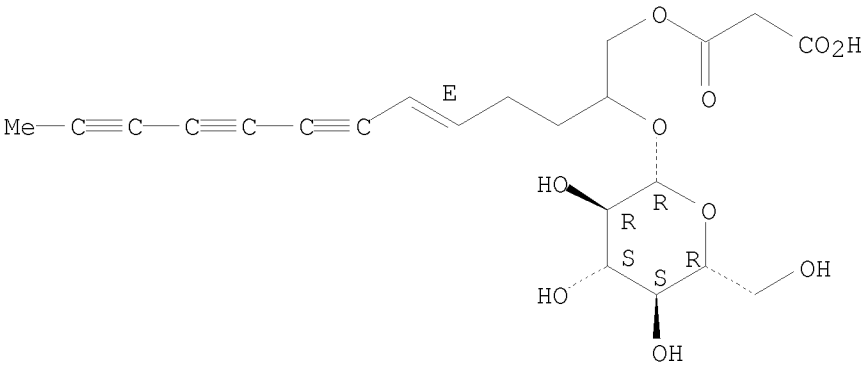


PAGE 2-B



L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN β-D-Glucopyranoside, (4E)-1-[[(carboxyacetyl)oxy]methyl]-4-dodecene-6,8,10-triynyl (9CI)
MF C22 H26 O10

Absolute stereochemistry.
Double bond geometry as shown.

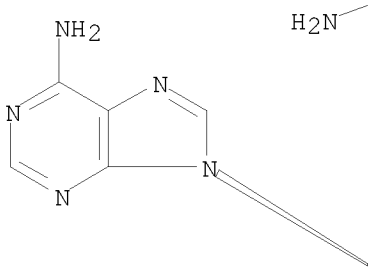


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

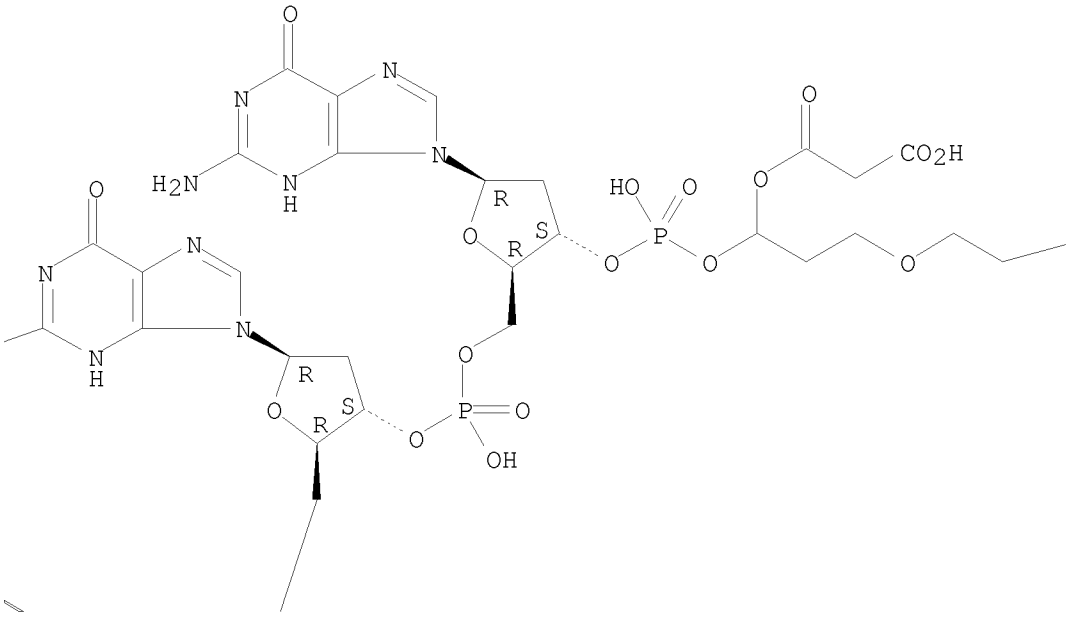
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3'-Guanylic acid, 2'-deoxyguanylyl-(3'→5')-2'-deoxyguanylyl-(3'→5')-2'-deoxyguanylyl-(3'→5')-2'-deoxyadenylyl-(3'→5')-2'-deoxyguanylyl-(3'→5')-2'-deoxy-, 3'-[1-[(carboxyacetyl)oxy]-17-[(3β)-cholest-5-en-3-yloxy]-17-oxo-4,7,10,13-tetraoxa-16-azaheptadec-1-yl] ester (9CI)
MF C102 H143 N31 O46 P6

Absolute stereochemistry.

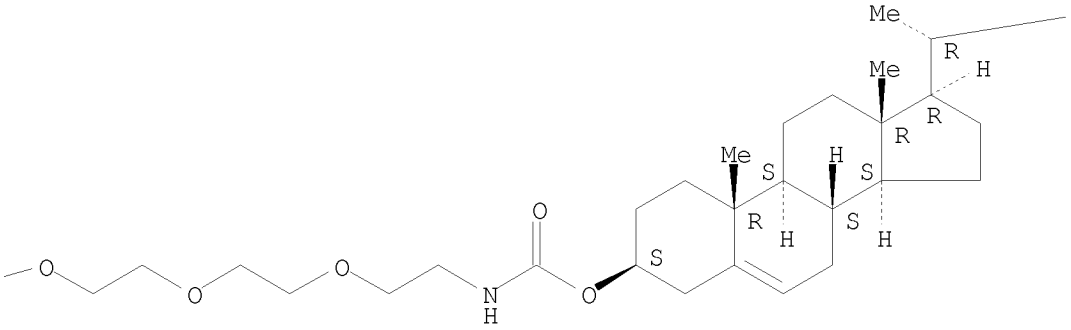
PAGE 1-A



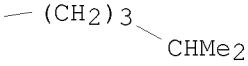
PAGE 1-B



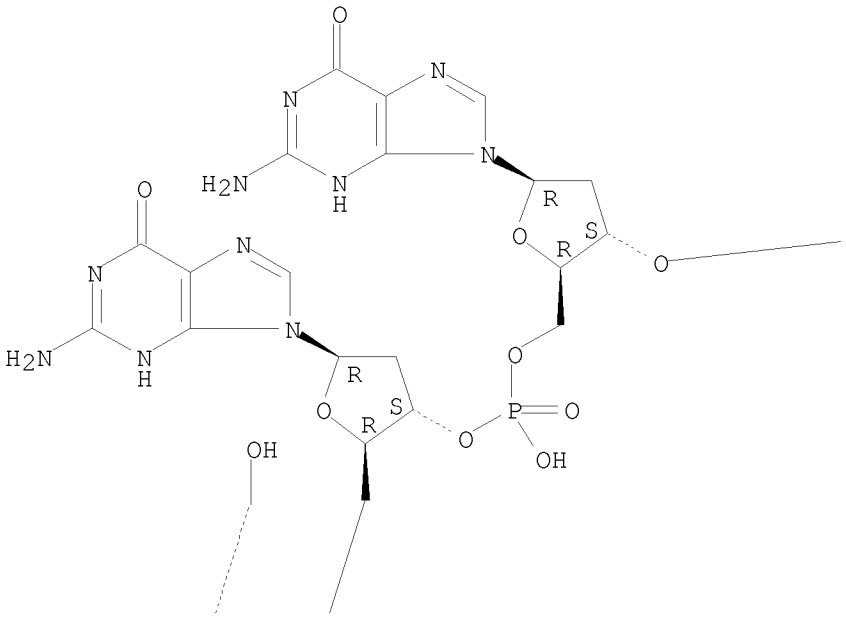
PAGE 1-C



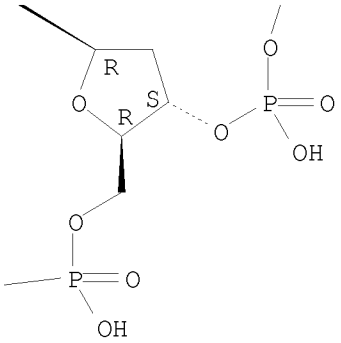
PAGE 1-D



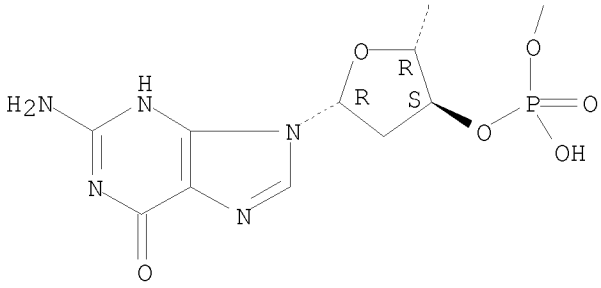
PAGE 2-A



PAGE 2-B

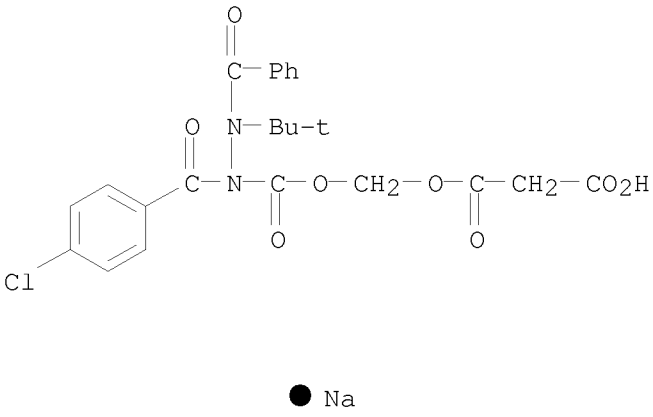


PAGE 3-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

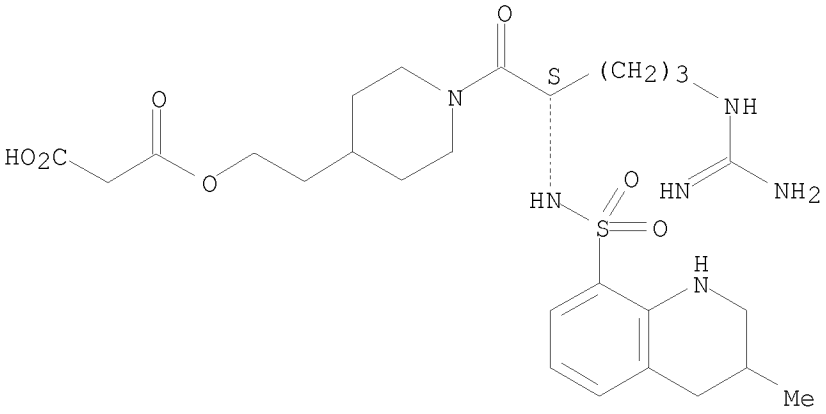
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[[2-benzoyl-1-(4-chlorobenzoyl)-2-(1,1-dimethylethyl)hydrazino]carbonyl]oxy]methyl] ester, sodium salt (9CI)
MF C23 H23 Cl N2 O8 . Na



L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[1-[(2S)-5-[(aminoiminomethyl)amino]-1-oxo-2-

[[(1,2,3,4-tetrahydro-3-methyl-8-quinolinyl)sulfonyl]amino]pentyl]-4-piperidinyl]ethyl] ester (9CI)
MF C26 H40 N6 O7 S
CI COM

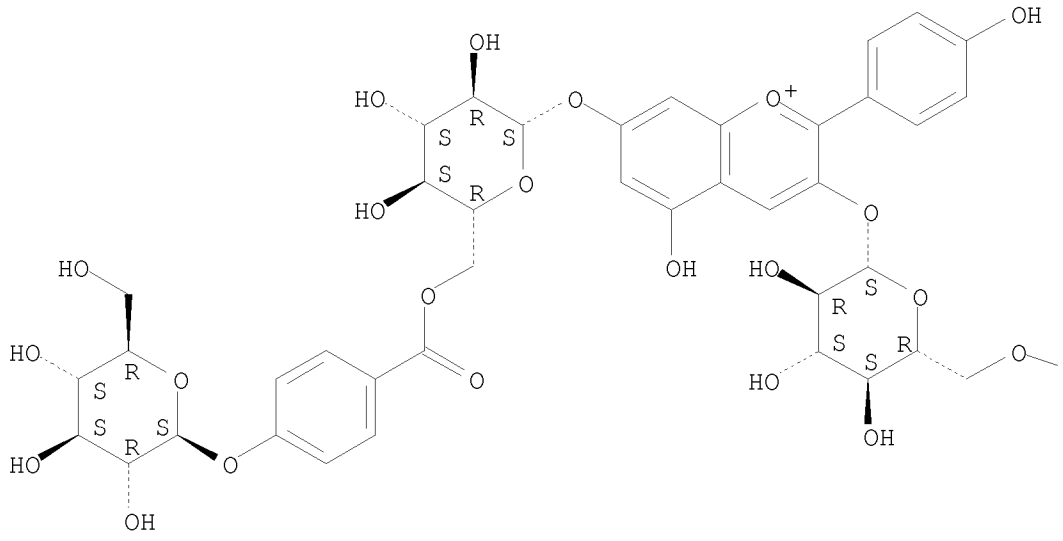
Absolute stereochemistry.

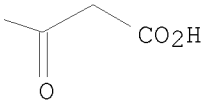


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

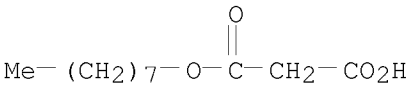
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 3-[[6-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-7-[[6-O-[4-(β-D-glucopyranosyloxy)benzoyl]-β-D-glucopyranosyl]oxy]-5-hydroxy-2-(4-hydroxyphenyl)- (9CI)
MF C43 H47 O25

Absolute stereochemistry.





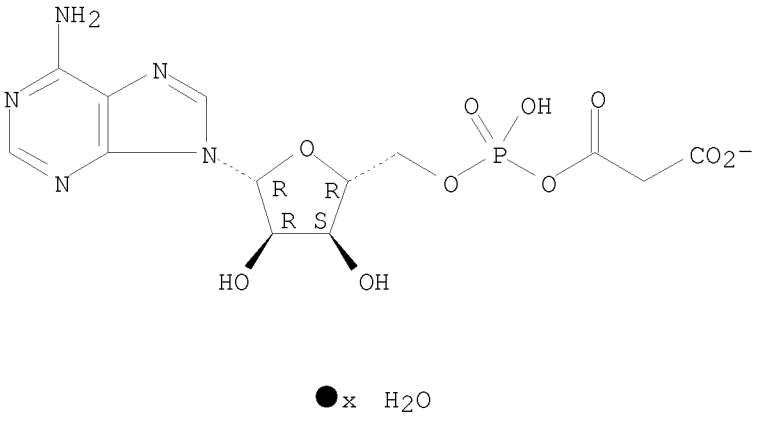
L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, monooctyl ester (9CI)
MF C11 H20 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5'-Adenylic acid, monoanhydride with propanedioic acid, ion(1-), hydrate (9CI)
MF C13 H15 N5 O10 P . x H2 O

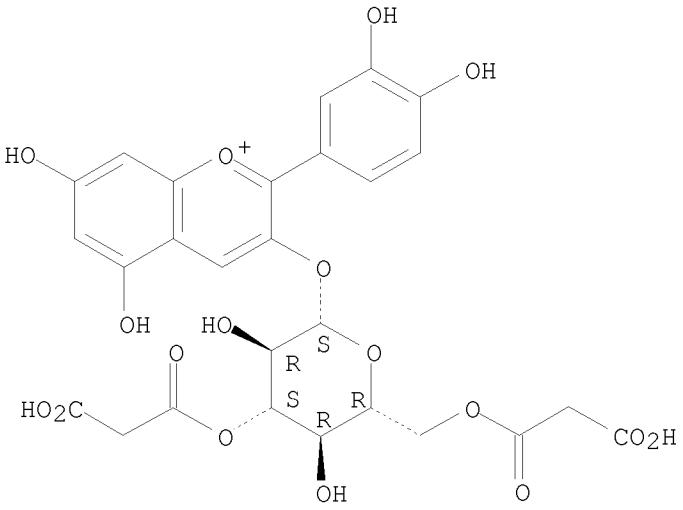
Absolute stereochemistry.



L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Benzopyrylium, 3-[[3,6-bis-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-5,7-dihydroxy- (9CI)

MF   C27 H25 O17
CI   COM

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> save temp l3 hemimalont/a
ANSWER SET L3 HAS BEEN SAVED AS 'HEMIMALONT/A'

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.80	173.01

FILE 'CAPLUS' ENTERED AT 14:31:09 ON 27 NOV 2006

FILE COVERS 1907 - 27 Nov 2006 VOL 145 ISS 23
FILE LAST UPDATED: 26 Nov 2006 (20061126/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> l3
L4   2980 L3

```
=> prodrug
         11327 PRODRUG
         11481 PRODRUGS
L5       16059 PRODRUG
                (PRODRUG OR PRODRUGS)

=> l4 (L)L5
L6           9 L4 (L)L5

=> D L6 1-9 TI

L6   ANSWER 1 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Heterocyclic anti-viral compounds comprising metabolizable moieties and
     their uses as inhibitors of hepatitis C virus replication and/or
     proliferation for treatment of hepatitis C infection

L6   ANSWER 2 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Preparation of N-substituted prodrugs of fluorooxindoles as potassium
     channel modulators

L6   ANSWER 3 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   A Prodrug Approach toward the Development of Water Soluble
     Fluoroquinolones and Structure-Activity Relationships of
     Quinoline-3-carboxylic Acids

L6   ANSWER 4 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as
     potential prodrugs

L6   ANSWER 5 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Terminally-branched polymeric linkers containing extension moieties for
     prodrug conjugates

L6   ANSWER 6 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Transport of acyclovir ester prodrugs through rabbit cornea and
     SIRC-rabbit corneal epithelial cell line

L6   ANSWER 7 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Regioselective synthesis of acyclovir and its various prodrugs

L6   ANSWER 8 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Preparation of 3,4-diaryl-2-hydroxy-2,5-dihydrofurans as prodrugs to
     cyclooxygenase-2 (cox-2) inhibitors and as non-steroidal anti-inflammatory
     agents

L6   ANSWER 9 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Process for preparing dioxolenone derivatives used for making prodrug
     esters and intermediates


=> d l6 1-9 ti fbib it

L6   ANSWER 1 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Heterocyclic anti-viral compounds comprising metabolizable moieties and
     their uses as inhibitors of hepatitis C virus replication and/or
     proliferation for treatment of hepatitis C infection
AN   2005:1126672  CAPLUS
DN   143:405897
TI   Heterocyclic anti-viral compounds comprising metabolizable moieties and
     their uses as inhibitors of hepatitis C virus replication and/or
     proliferation for treatment of hepatitis C infection
```

IN Singh, Rajinder; Goff, Dane; Kolluri, Rao S. S.; Darwish, Ihab S.; Partridge, John; Cooper, Robin; Lu, Henry H.; Park, Gary

PA Rigel Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 149 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005097760	A1	20051020	WO 2005-US9909	20050325
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			US 2004-556625P P	20040326
			US 2004-582903P P	20040624
US 2005239751	A1	20051027	US 2005-90823	20050325
			US 2004-556625P P	20040326
			US 2004-582903P P	20040624

OS MARPAT 143:405897

IT Heterocyclic compounds
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidates; preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT Antiviral agents
Drug delivery systems
Hepatitis C virus
Human
(preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT Drug delivery systems
(prodrugs; preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT Infection
(viral; preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT 867215-83-6P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)-5-isoxazolyl]-4-pyridyl]-N-[(5-tert-butyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT 867215-36-9P 867215-95-0P, tert-Butyl 4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propanoyl]benzoate 867216-30-6P, tert-Butyl 2-[3-[[2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]propanoyl]pyrrolidine-1-carboxylate 867216-39-5P, tert-Butyl 4-[3-Chloro-2-[5-[3-[2,2-dichloro-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamido]phenyl]isoxazol-3-yl]phenoxy]piperidine-1-carboxylate 867216-46-4P, Di-tert-butyl [[4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propyl]phenyl]methyl]phosphonate

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT 667931-30-8P 867215-38-1P, 2,2-Dichloro-2-(dihydroxyphosphonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-39-2P, 2-Chloro-2-(diethoxyphosphonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-40-5P, 2-Chloro-2-(diethoxyphosphonyl)-2-fluoro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-41-6P, 2-(Diethoxyphosphonyl)-2,2-difluoro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-42-7P, 2,2-Dichloro-2-(diisopropoxyphosphonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-43-8P, 2,2-Dichloro-2-(diethoxyphosphonyl)-N-[3-[3-(2-trifluoromethylphenyl)-5-isoxazolyl]phenyl]acetamide 867215-44-9P, 2,2-Dichloro-2-(diethoxyphosphonyl)-N-[3-[3-(2-fluoro-6-trifluoromethylphenyl)-5-isoxazolyl]phenyl]acetamide 867215-45-0P, 2,2-Dichloro-2-(tert-butoxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-48-3P, 2,2-Dichloro-2-(isopropoxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-51-8P, 2,2-Dichloro-2-[[[(1S)-ethoxycarbonyl-1-(methyl)methyl]oxy]carbonyl]-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-52-9P 867215-53-0P, 2,2-Dichloro-2-[[(1-adamantyl)oxy]carbonyl]-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-54-1P, 2,2-Dichloro-2-((1R,2S,5R)-menthyloxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-55-2P, 2,2-Dichloro-2-(sec-butoxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-56-3P, 2,2-Dichloro-2-(cyclohexyloxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-57-4P, 2,2-Dichloro-2-(neopentyloxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-58-5P, 2,2-Dichloro-2-(benzyloxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-59-6P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[2-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-60-9P, 2,2-Dichloro-2-(tert-butoxycarbonyl)-N-[2-[3-(2,6-dichlorophenyl)-5-isoxazolyl]-4-pyridyl]acetamide 867215-61-0P, 2,2-Dichloro-2-(tert-butoxycarbonyl)-N-[3-[3-(2-chloro-6-methoxyphenyl)-5-isoxazolyl]phenyl]acetamide 867215-62-1P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[3-[3-(2-cyclopropyl-6-trifluoromethylphenyl)-5-isoxazolyl]phenyl]acetamide 867215-63-2P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[3-[3-(2-chloro-6-methoxyphenyl)-5-isoxazolyl]phenyl]acetamide 867215-64-3P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[3-[3-(4-chloro-2-dimethylaminopyridin-3-yl)-5-isoxazolyl]phenyl]acetamide 867215-65-4P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[3-[3-(2-trifluoromethylphenyl)-5-isoxazolyl]phenyl]acetamide 867215-66-5P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[3-[3-(2-fluoro-6-trifluoromethylphenyl)-5-isoxazolyl]phenyl]acetamide 867215-67-6P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-69-8P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N-[(5-tert-butyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-71-2P, 2,2-Dichloro-N-[3-[3-(2-chloro-6-methoxyphenyl)-5-isoxazolyl]phenyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-72-3P, 2,2-Dichloro-N-[3-[3-(2,4-dichloropyridin-3-yl)-5-isoxazolyl]phenyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-73-4P, 2,2-Dichloro-N-[3-[3-(4-chloro-2-dimethylaminopyridin-3-yl)-5-isoxazolyl]phenyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-74-5P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-75-6P, 2,2-Dichloro-N-[3-[3-(4-chloro-2-

dimethylaminopyridin-3-yl)-5-isoxazolyl]phenyl]-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-76-7P, 2,2-Dichloro-N-[3-[3-(2-chloro-6-tert-butoxycarbonylphenyl)-5-isoxazolyl]phenyl]-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-77-8P, 2,2-Dichloro-N-[3-[3-(2-chloro-6-methoxyphenyl)-5-isoxazolyl]phenyl]-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-78-9P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-propyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-79-0P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-cyclohexyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-80-3P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-ethyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-81-4P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)-5-isoxazolyl]-4-pyridyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-82-5P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)-5-isoxazolyl]-4-pyridyl]-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-84-7P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)-5-isoxazolyl]-4-pyridyl]-N-[(5-pentyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-85-8P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-ethoxycarbonyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867215-86-9P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N-[2-(phenylsulfonyl)ethyl]acetamide 867215-89-2P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-oxo-3-(pyridin-3-yl)propyl]acetamide 867215-92-7P, 4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propanoyl]benzoic Acid 867215-96-1P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-(morpholino)-3-oxopropyl]acetamide 867216-00-0P, Ethyl 2-[4-[3-[2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]acetamido]propanoyl]phenyl]acetate 867216-01-1P, N-(4-Amino-3-oxo-5-phenylpentyl)-2,2-dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamide 867216-02-2P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-oxo-3-(piperidin-4-yl)propyl]acetamide 867216-03-3P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-oxo-3-(pyrrolidin-2-yl)propyl]acetamide 867216-04-4P, tert-Butyl 3-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propanoyl]piperidine-1-carboxylate 867216-06-6P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-oxo-3-(piperidin-3-yl)propyl]acetamide 867216-07-7P, tert-Butyl 4-[4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propanoyl]phenyl]piperazine-1-carboxylate 867216-08-8P, 4-[[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]methyl]-2,6-dimethylphenyl propylcarbamate 867216-11-3P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N'-methylmalonamide 867216-15-7P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N-[[2-oxo-5-(pyrrolidin-2-yl)-1,3-dioxol-4-yl]methyl]acetamide 867216-16-8P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N-[[2-oxo-5-(pyrrolidin-2-yl)-1,3-dioxol-4-yl]methyl]acetamide monotrifluoroacetate 867216-32-8P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[[2-(pyridin-2-yl)ethoxy]methyl]acetamide 867216-34-0P, 2,2-Dichloro-N-[3-[3-[2-chloro-6-(piperidin-4-yloxy)phenyl]isoxazol-5-yl]phenyl]-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867216-36-2P, 2,2-Dichloro-N-(3-ethynylphenyl)-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867216-40-8P, 2,2-Dichloro-N-[2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[(1-methyl-1H-imidazol-2-yl)methyl]acetamide 867216-42-0P, [4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propyl]benzyl]phosphonic Acid 867216-47-5P 867216-52-2P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N'-(3-morpholinopropyl)malonamide 867216-53-3P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N'-[(pyridin-2-yl)methyl]malonamide 867216-54-4P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N'-(2-

hydroxyethyl)malonamide 867216-55-5P, Propyl [4-[[2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]acetamido]methyl]phenyl]carbamate 867216-56-6P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N-[[2-oxo-5-(piperidin-3-yl)-1,3-dioxol-4-yl]methyl]acetamide 867216-57-7P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N-[(5-neopentyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867216-58-8P, 2,2-Dichloro-N-[(5-cyclobutyl-2-oxo-1,3-dioxol-4-yl)methyl]-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]acetamide 867216-59-9P, Isopropyl 2,2-Dichloro-3-[[3-[3-(2-chloro-6-methoxyphenyl)isoxazol-5-yl]phenyl]amino]-3-oxopropanoate 867216-60-2P, tert-Butyl 4-[[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]methyl]benzoate 867216-61-3P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[4-(2-morpholinoethoxy)benzyl]acetamide 867216-62-4P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[4-(4-ethylpiperazin-1-yl)benzyl]acetamide 867216-63-5P, N-[(5-Benzyl-2-oxo-1,3-dioxol-4-yl)methyl]-2,2-dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]acetamide 867216-64-6P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-(2-morpholinoethyl)acetamide 867216-65-7P, 3-Chloro-2-[5-[3-[2,2-dichloro-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamido]phenyl]isoxazol-3-yl]benzoic Acid 867216-66-8P, 2,2-Dichloro-N-[3-[3-[2-cyclopropyl-6-(trifluoromethyl)phenyl]isoxazol-5-yl]phenyl]-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867216-67-9P, 2,2-Dichloro-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]-N-[3-[3-[2-methoxy-6-(trifluoromethyl)phenyl]isoxazol-5-yl]phenyl]acetamide 867216-68-0P, Methyl 3-Chloro-2-[5-[3-[2,2-dichloro-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamido]phenyl]isoxazol-3-yl]benzoate 867216-69-1P, N-[3-[3-[2-(1-Acetylpiperidin-4-yloxy)-6-chlorophenyl]isoxazol-5-yl]phenyl]-2,2-dichloro-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867216-70-4P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[(5-neopentyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide 867216-71-5P, 4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propyl]phenyl diethyl phosphate 867216-72-6P, tert-Butyl 4-[4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propyl]phenyl]piperazine-1-carboxylate 867216-73-7P, tert-Butyl 4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propyl]benzoate 867216-74-8P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-[4-(piperazin-1-yl)phenyl]propyl]acetamide 867216-77-1P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[2-(4-fluorobenzoyl)ethyl]Acetamide 867216-80-6P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[2-(benzoyl)propyl]Acetamide 867216-82-8P 867216-83-9P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[2-(benzoyl)ethyl]Acetamide 867216-84-0P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[2-(4-methoxybenzoyl)ethyl]Acetamide 867216-85-1P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[2-(4-chlorobenzoyl)ethyl]Acetamide 867216-86-2P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]pyridin-4-yl]-N-[2-(4-fluorobenzoyl)ethyl]Acetamide 867216-87-3P, 2,2-Dichloro-N-[3-[3-[2-chloro-6-(N-acetyl-4-piperidinyloxy)phenyl]-5-isoxazolyl]phenyl]-N-[2-(4-fluorobenzoyl)ethyl]Acetamide 867216-88-4P, 2,2-Dichloro-N-[3-[3-(2-cyclopropyl-6-trifluoromethylphenyl)-5-isoxazolyl]phenyl]-N-[2-(4-fluorobenzoyl)ethyl]Acetamide 867216-89-5P, 2,2-Dichloro-N-[3-[3-(2-chloro-6-methoxyphenyl)-5-isoxazolyl]phenyl]-N-[2-(4-fluorobenzoyl)ethyl]Acetamide 867216-90-8P, 2,2-Dichloro-N-[3-[3-(2-chloro-6-tert-butoxycarbonylphenyl)-5-isoxazolyl]phenyl]-N-[2-(4-fluorobenzoyl)ethyl]Acetamide 867216-91-9P, 2,2-Dichloro-N-[3-[3-(2-chloro-6-hydroxycarbonylphenyl)-5-isoxazolyl]phenyl]-N-[2-(4-fluorobenzoyl)ethyl]Acetamide 867216-92-0P, 2,2-Dichloro-N-[3-[3-[2-

chloro-6-(methoxycarbonyl)phenyl]-5-isoxazolyl]phenyl]-N-[2-(4-fluorobenzoyl)ethyl]Acetamide 867216-93-1P 867216-94-2P 867216-95-3P 867216-96-4P 867216-97-5P 867216-98-6P 867217-01-4P 867217-04-7P 867217-07-0P 867217-10-5P 867217-13-8P 867217-15-0P 867217-17-2P 867217-19-4P 867217-21-8P 867217-23-0P 867217-25-2P 867217-28-5P 867217-31-0P 867217-34-3P 867217-39-8P 867217-40-1P 867217-41-2P 867217-42-3P 867217-43-4P 867217-44-5P 867217-45-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT 34255-65-7P, 2,2-Dichloro-2-(diethoxyphosphonyl)acetyl chloride 62458-19-9P, 4,5-Bis(bromomethyl)-1,3-dioxol-2-one 65874-27-3P, tert-Butyl 4-Formylbenzoate 77902-92-2P, Benzyl 4,4-dimethyl-3-oxopentanoate 80715-22-6P, 4-Bromomethyl-5-methyl-1,3-dioxol-2-one 86005-12-1P, 4-Bromomethyl-5-tert-butyl-1,3-dioxol-2-one 95091-91-1P, N-Methoxy-N-methylnicotinamide 98027-11-3P, Methyl 2,2,3-Trichloro-3-oxopropanoate 118811-07-7P, tert-Butyl 4-(Tosyloxy)piperidine-1-carboxylate 133614-04-7P, 1-(Pyridin-3-yl)prop-2-en-1-one 149324-96-9P, tert-Butyl 4-(1-Hydroxyallyl)benzoate 188525-92-0P, 5-tert-Butyl-2-oxo-1,3-dioxole-4-carboxylic acid 188525-93-1P, 5-tert-Butyl-4-hydroxymethyl-1,3-dioxol-2-one 188526-14-9P, Benzyl 2-diazo-4,4-dimethyl-3-oxopentanoate 188526-15-0P, Benzyl 4,4-dimethyl-2-hydroxy-3-oxopentanoate 188526-16-1P, Benzyl 5-tert-butyl-2-oxo-1,3-dioxole-4-carboxylate 209551-44-0P, 4-(Bromomethyl)-5-(hydroxymethyl)-1,3-dioxol-2-one 867215-37-0P, 1-[[2,2-Dichloro-2-(diethoxyphosphonyl)acetyl]amino]-3-ethynylbenzene 867215-46-1P, 2-(tert-Butoxycarbonyl)-2,2-dichloroacetyl chloride 867215-47-2P, 1-[[2-(tert-Butoxycarbonyl)-2,2-dichloroacetyl]amino]-3-ethynylbenzene 867215-49-4P, 2-(Isopropoxycarbonyl)-2,2-dichloroacetyl chloride 867215-50-7P, 1-[[2-(Isopropoxycarbonyl)-2,2-dichloroacetyl]amino]-3-ethynylbenzene 867215-68-7P, N-[3-(2,6-Dichlorophenyl)-5-isoxazolyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl]aniline 867215-70-1P, N-[3-[3-(2,6-Dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-tert-butyl-2-oxo-1,3-dioxol-4-yl)methyl]amine 867215-87-0P, 3-Ethynyl-N-[2-(phenylsulfonyl)ethyl]benzenamine 867215-88-1P, 2,2-Dichloro-N-(3-ethynylphenyl)-N-[2-(phenylsulfonyl)ethyl]acetamide 867215-90-5P, 3-[[2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]-1-(pyridin-3-yl)propan-1-one 867215-93-8P, tert-Butyl 4-Acryloylbenzoate 867215-94-9P, tert-Butyl 4-[3-[[2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]propanoyl]benzoate 867215-97-2P, 3-[[2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]-1-morpholinopropan-1-one 867216-09-9P, 4-Formyl-2,6-dimethylphenyl propylcarbamate 867216-10-2P, 4-[[[2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]methyl]-2,6-dimethylphenyl propylcarbamate 867216-12-4P, Methyl 2,2-Dichloro-3-(3-ethynylphenylamino)-3-oxopropanoate 867216-13-5P, Methyl 2,2-Dichloro-3-[[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]amino]-3-oxopropanoate 867216-17-9P, (S)-tert-Butyl 2-[3-(Benzyloxy)-3-oxopropanoyl]pyrrolidine-1-carboxylate 867216-18-0P, (S)-tert-Butyl 2-[3-(Benzyloxy)-2-diazo-3-oxopropanoyl]pyrrolidine-1-carboxylate 867216-21-5P, (S)-tert-Butyl 2-[3-(Benzyloxy)-2-hydroxy-3-oxopropanoyl]pyrrolidine-1-carboxylate 867216-22-6P, tert-Butyl 2-[5-(Benzyloxycarbonyl)-2-oxo-1,3-dioxol-4-yl]pyrrolidine-1-carboxylate 867216-23-7P, 5-[1-(tert-Butoxycarbonyl)pyrrolidin-2-yl]-2-oxo-1,3-dioxole-4-carboxylic Acid 867216-24-8P, tert-Butyl 2-[5-(Hydroxymethyl)-2-oxo-1,3-dioxol-4-yl]pyrrolidine-1-carboxylate 867216-25-9P, tert-Butyl 2-[5-(Bromomethyl)-2-oxo-1,3-dioxol-4-yl]pyrrolidine-1-carboxylate 867216-26-0P, tert-Butyl 2-[5-[(3-Ethynylphenylamino)methyl]-2-oxo-1,3-dioxol-4-yl]pyrrolidine-1-carboxylate 867216-27-1P, tert-Butyl 2-[5-[[2,2-Dichloro-N-(3-ethynylphenyl)acetamido]methyl]-2-oxo-1,3-dioxol-

4-yl]pyrrolidine-1-carboxylate 867216-28-2P, tert-Butyl 2-[5-[[2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]acetamido]methyl]-2-oxo-1,3-dioxol-4-yl]pyrrolidine-1-carboxylate 867216-29-3P, tert-Butyl 2-Acryloylpyrrolidine-1-carboxylate 867216-31-7P, tert-Butyl 2-[6,6-Dichloro-4-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-5-oxohexanoyl]pyrrolidine-1-carboxylate 867216-33-9P, 2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]-N-[[2-(pyridin-2-yl)ethoxy]methyl]pyridin-4-amine 867216-35-1P, 4-[(3-Ethynylphenylamino)methyl]-5-isopropyl-1,3-dioxol-2-one 867216-37-3P, tert-Butyl 4-(3-Chloro-2-formylphenoxy)piperidine-1-carboxylate 867216-38-4P, (E)-tert-Butyl 4-[3-Chloro-2-[(hydroxyimino)methyl]phenoxy]piperidine-1-carboxylate 867216-41-9P, 2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]-N-[(1-methyl-1H-imidazol-2-yl)methyl]pyridin-4-amine 867216-43-1P, Di-tert-butyl 4-Iodobenzylphosphonate 867216-44-2P, Di-tert-butyl [[4-(3-Oxopropyl)phenyl]methyl]phosphonate 867216-45-3P, Di-tert-butyl [[4-[3-[[2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]propyl]phenyl]methyl]phosphonate 867216-48-6P 867216-49-7P 867216-51-1P 867216-75-9P, N-[2-(4-Fluorobenzoyl)ethyl]-3-ethynylaniline 867216-76-0P, 2,2-Dichloro-N-(3-ethynylphenyl)-N-[2-(4-fluorobenzoyl)ethyl]Acetamide 867216-78-2P, N-[2-(Benzoyl)propyl]-3-ethynylaniline 867216-79-3P, N-[2-(Benzoyl)propyl]-3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]Aniline 867216-81-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT 867215-91-6
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT 103-74-2, 2-(2-Hydroxyethyl)pyridine 107-18-6, Allyl alcohol, reactions 110-78-1, 1-Isocyanatopropane 495-41-0, Phenyl 1-propenyl ketone 619-66-9, 4-Carboxybenzaldehyde 2033-24-1, Meldrum's acid 2158-14-7, 4-Acetamidobenzenesulfonyl azide 2233-18-3, 4-Hydroxy-3,5-dimethylbenzaldehyde 3095-95-2, Diethylphosphonoacetic acid 5117-12-4, 4-Acryloylmorpholine 5535-48-8, Phenyl vinyl sulfone 6579-27-7, 2,6-Dichloro-N-hydroxybenzenecarboximidoyl chloride 10400-19-8, Nicotinoyl chloride 13086-84-5, Di-tert-butyl phosphite 13750-81-7, 1-Methyl-2-imidazolecarboxaldehyde 15761-39-4, L-Boc-proline 16004-15-2, 4-Iodobenzyl bromide 17094-34-7, Ethyl 4,4-dimethyl-3-oxopentanoate 18362-30-6, 2-Chloro-6-hydroxybenzaldehyde 37517-81-0, Methyl malonyl chloride 37830-90-3, 4,5-Dimethyl-1,3-dioxol-2-one 40052-13-9, Mono-tert-butyl malonate 54060-30-9, 3-Ethynylaniline 79999-47-6 109384-19-2, 1-tert-Butoxycarbonyl-4-hydroxypiperidine 188525-86-2, 4-(Bromomethyl)-5-isopropyl-1,3-dioxol-2-one 194943-82-3, 3-Chloro-4-fluoropropiophenone 334872-14-9, tert-Butyl 2-[methoxy(methyl)carbamoyl]pyrrolidine-1-carboxylate 725234-14-0, 3-(2,6-Dichlorophenyl)-5-(3-aminophenyl)isoxazole 867215-98-3, 2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-amine hydrochloride 867216-50-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of substituted heterocyclic prodrugs for treating HCV infection)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators
AN 2005:1005980 CAPLUS

DN 143:306171
TI Preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators
IN Starrett, John E.; Lopez, Omar D.; Hewawasam, Piyasena; Ding, Min
PA USA
SO U.S. Pat. Appl. Publ., 36 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI US 2005203089	A1	20050915	US 2005-74288		20050307
			US 2004-553319P	P	20040315

OS MARPAT 143:306171
IT Poisoning, biological
(carbon monoxide; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Antihypertensives
(elevated intracranial pressure; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Bladder, disease
(incontinence; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Spinal cord, disease
(injury; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Hypertension
(intracranial, elevated; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Intestine, disease
(irritable bowel syndrome; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Headache
(migraine; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Anti-ischemic agents
Antiasthmatics
Anticonvulsants
Antimigraine agents
Asthma
Convulsion
Epilepsy
Ischemia
Potassium channel openers
Sexual disorders
(preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Potassium channel
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Drug delivery systems
(prodrugs; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Injury
(spinal cord; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)
IT Brain, disease

(stroke; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

IT Brain, disease
(trauma; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

IT 864774-04-9P 864774-10-7P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators)

IT 864773-90-0P 864773-92-2P 864773-94-4P 864773-95-5P 864773-97-7P
864773-99-9P 864774-01-6P 864774-02-7P 864774-06-1P
864774-08-3P 864774-12-9P 864774-14-1P 864774-17-4P 864774-18-5P
864774-19-6P 864774-21-0P 864774-23-2P 864774-25-4P 864774-27-6P
864774-29-8P 864774-31-2P 864774-33-4P 864774-35-6P 864774-37-8P
864774-40-3P 864774-42-5P 864774-43-6P 864774-45-8P 864774-47-0P
864774-49-2P 864774-50-5P 864774-53-8P 864774-54-9P 864774-56-1P
864774-58-3P 864774-60-7P 864774-62-9P 864774-64-1P 864774-66-3P
864774-68-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators)

IT 91970-62-6P 134558-05-7P 214543-64-3P 607740-49-8P 607740-50-1P
864774-70-9P 864774-72-1P 864774-74-3P 864774-76-5P 864774-78-7P
864774-80-1P 864774-82-3P 864774-84-5P 864774-86-7P 864774-88-9P
864774-90-3P 864774-92-5P 864774-94-7P 864774-96-9P 864774-98-1P
864774-99-2P 864775-02-0P 864775-07-5P 864775-09-7P 864775-11-1P
864775-13-3P 864775-15-5P 864775-17-7P 864775-19-9P 864775-21-3P
864775-22-4P 864775-23-5P 864775-26-8P 864775-28-0P 864775-30-4P
864775-32-6P 864775-35-9P 864775-36-0P 864775-38-2P 864775-40-6P
864775-42-8P 864775-44-0P 864775-45-1P 864775-47-3P 864775-49-5P
864775-51-9P 864775-52-0P 864775-54-2P 864775-55-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators)

IT 75-50-3, Trimethylamine, reactions 96-48-0, γ-Butyrolactone
100-51-6, Benzyl alcohol, reactions 103-40-2, Succinic acid benzyl ester
105-04-4, Triethylethylenediamine 109-01-3, 1-Methylpiperazine
109-89-7, Diethylamine, reactions 110-89-4, Piperidine, reactions
110-91-8, Morpholine, reactions 876-08-4 1118-68-9,
N,N-Dimethylglycine 1791-13-5, L-Aspartic acid di-tert-butyl ester hydrochloride 2462-31-9, Glycine benzyl ester hydrochloride 2462-34-2,
L-Valine benzyl ester hydrochloride 2791-84-6 2886-33-1, L-Aspartic acid dibenzyl ester tosylate 4107-62-4, 3-Cyanopropionic acid methyl ester 4512-32-7 5437-45-6, Benzyl bromoacetate 5557-83-5, L-Alanine benzyl ester hydrochloride 13404-22-3 13518-40-6, L-Valine tert-butyl ester hydrochloride 13616-37-0, (1H-Tetrazol-5-yl)acetic acid ethyl ester 15100-75-1, L-Phenylalanine tert-butyl ester hydrochloride 16652-71-4, Proline benzyl ester hydrochloride 16652-75-8, Isoleucine benzyl ester tosylate 27019-47-2, β-Alanine benzyl ester tosylate 30379-58-9, Benzyl glycolate 32677-01-3, L-Glutamic acid di-tert-butyl ester hydrochloride 40204-26-0 56777-24-3, L-Lactic acid benzyl ester 58620-93-2, β-Alanine tert-butyl ester hydrochloride 63024-77-1, 3-(Chloromethyl)benzoyl chloride 69320-89-4, L-Isoleucine tert-butyl ester hydrochloride 91900-05-9 99529-36-9, reactions 117999-25-4 129919-88-6 187523-35-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; preparation of N-substituted prodrugs of

fluorooxindoles as potassium channel modulators)

L6 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI A Prodrug Approach toward the Development of Water Soluble Fluoroquinolones and Structure-Activity Relationships of Quinoline-3-carboxylic Acids
AN 2004:650361 CAPLUS
DN 141:307045
TI A Prodrug Approach toward the Development of Water Soluble Fluoroquinolones and Structure-Activity Relationships of Quinoline-3-carboxylic Acids
AU Baker, William R.; Cai, Shaopei; Dimitroff, Martin; Fang, Liming; Huh, Kay K.; Ryckman, David R.; Shang, Xiao; Shawar, Ribhi M.; Therrien, Joseph H.
CS Chiron Corporation, Seattle, WA, 98119, USA
SO Journal of Medicinal Chemistry (2004), 47(19), 4693-4709
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 141:307045
IT Structure-activity relationship
(bactericidal; prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)
IT Lung, disease
(infection; prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)
IT Antibacterial agents
Enterococcus faecalis
Escherichia coli
Pseudomonas aeruginosa
Staphylococcus aureus
(prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)
IT Drug delivery systems
(prodrugs; prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)
IT Infection
(pulmonary; prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)
IT 98106-06-0P 767306-95-6P 767306-96-7P 767306-97-8P 767306-98-9P
767306-99-0P 767307-00-6P 767307-01-7P 767307-02-8P 767307-03-9P
767307-04-0P 767307-05-1P 767307-06-2P 767307-07-3P 767307-08-4P
767307-09-5P 767307-10-8P 767307-11-9P 767307-12-0P 767307-13-1P
767307-14-2P 767307-15-3P 767307-16-4P 767307-17-5P 767307-18-6P
767307-19-7P 767307-20-0P 767307-21-1P 767307-22-2P 767307-23-3P
767307-24-4P 767307-25-5P 767307-26-6P 767307-27-7P 767307-28-8P
767307-29-9P 767307-30-2P 767307-31-3P 767307-32-4P 767307-33-5P
767307-34-6P 767307-35-7P 767307-36-8P 767307-37-9P 767307-38-0P
767307-39-1P 767307-40-4P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)
IT 6480-68-8DP, Quinoline-3 carboxylic acid, derivs. 102855-68-5P, PA 2789
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)

IT 98349-24-7P 247075-55-4P 402923-54-0P 402923-70-0P, PA 2808 767306-85-4P 767306-86-5P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)

IT 100-51-6, Benzenemethanol, reactions 104-94-9 109-01-3, N-Methylpiperazine 110-85-0, Piperazine, reactions 122-51-0 123-30-8, 4-Aminophenol 538-37-4 876-30-2 6148-64-7, Potassium ethyl malonate 6674-22-2, 1,8-Diazabicyclo[5.4.0]undec-7-ene 7786-30-3, Magnesium chloride, reactions 21655-48-1 88419-56-1, 2,4,5-Trifluorobenzoyl chloride 96568-04-6 99724-19-3 103319-17-1 107610-69-5 107610-73-1 114677-00-8 116751-24-7, 2,4,5-Trifluoro-3-hydroxybenzoic acid 120737-59-9 127199-44-4 127199-45-5 128740-09-0 130657-64-6 134575-17-0 149366-79-0 159877-36-8 175463-84-0 185693-03-2 185693-04-3 198989-07-0 767307-47-1 767307-52-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)

IT 108138-19-8P 112811-65-1P 112811-66-2P 136897-64-8P 402923-38-0P 767306-81-0P 767306-82-1P 767306-83-2P 767306-84-3P 767306-87-6P 767306-88-7P 767306-90-1P 767306-91-2DP, derivs. 767306-92-3DP, derivs. 767306-94-5P 767307-41-5P 767307-42-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)

IT 767306-89-8DP, derivs. 767306-93-4DP, derivs.
RL: SPN (Synthetic preparation); PREP (Preparation)
(prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs
AN 2004:591513 CAPLUS
DN 141:427900
TI Water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs
AU Cho, Hoon; Chung, Yongseog
CS Kuhnil Pharmaceutical Co. LTD., Chungnam, 333-810, S. Korea
SO Archives of Pharmacal Research (2004), 27(6), 662-669
CODEN: APHRDQ; ISSN: 0253-6269
PB Pharmaceutical Society of Korea
DT Journal
LA English
IT Hydrolysis
(enzymic; water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)

IT Drug delivery systems
(prodrugs; water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)

IT Human
Stability
(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)

IT 321526-68-5P
RL: PKT (Pharmacokinetics); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)
IT 59865-13-3, Cyclosporin A
RL: PRP (Properties); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)
IT 795308-42-8P 795308-43-9P 795308-44-0P 795308-45-1P 795308-46-2P 795308-47-3P
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)
IT 22128-62-7, Chloromethyl chloroformate 31961-02-1 79934-70-6 125220-94-2 187848-53-9 519052-38-1 795308-40-6 795308-41-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)
IT 321526-67-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Terminally-branched polymeric linkers containing extension moieties for prodrug conjugates
AN 2002:107826 CAPLUS
DN 136:172758
TI Terminally-branched polymeric linkers containing extension moieties for prodrug conjugates
IN Greenwald, Richard B.; Choe, Yun H.
PA Enzon Pharmaceuticals, Inc., USA
SO U.S. Pat. Appl. Publ., 32 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2002015691	A1	20020207	US 2001-823296	20010329
US 6777387	B2	20040817		
			US 2000-193931P P	20000331

IT Drug delivery systems
(polymer-bound; terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)
IT Drug delivery systems
(prodrugs; terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)
IT Antitumor agents
Molecular weight distribution
(terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)
IT 396133-96-3P 396133-97-4P 396133-98-5P 396133-99-6P 396134-00-2P 396134-01-3P 396134-02-4P 396134-06-8P 396134-07-9P 396134-08-0P

396134-09-1P 396134-10-4P 396134-11-5P 396134-12-6P 396134-15-9P
396134-16-0P 396134-17-1P 396134-18-2P 396134-19-3P 396134-20-6P
396134-21-7P 397244-13-2P 397244-15-4P 397244-37-0P 397244-38-1P
397244-39-2P 397244-40-5P 397245-64-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)

IT 56-84-8D, L-Aspartic acid, PEG derivative 96-53-7, 2-Thiazolidinethione 105-36-2 147-94-4, Ara-C 524-38-9, N-Hydroxyphthalimide 929-06-6 7689-03-4, Camptothecin 9004-74-4 13139-15-6 13726-67-5 19172-47-5, Lawesson's reagent 32315-10-9, Triphosgene 74124-79-1, N,N'-Disuccinimidyl carbonate 136586-99-7 153086-78-3 187848-53-9 396134-05-7 396712-38-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)

IT 80681-05-6P 96989-50-3P 108466-89-3P 139115-91-6P 167082-77-1P 188636-64-8P 259802-47-6P 261364-63-0P 341551-69-7P 379711-88-3P 379711-89-4P 396133-72-5P 396133-74-7P 396133-75-8P 396133-77-0P 396133-78-1P 396133-79-2P 396133-81-6P 396133-82-7P 396133-83-8P 396133-85-0P 396133-86-1P 396133-88-3P 396133-89-4P 396133-90-7P 396133-92-9P 396133-93-0P 396133-95-2P 396134-04-6P 396134-13-7P 396134-14-8P 396134-22-8P 396134-24-0P 396134-25-1P 396134-28-4P 396134-30-8P 396134-31-9P 397245-65-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)

IT 367928-61-8P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line
AN 2001:800887 CAPLUS
DN 137:68011
TI Transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line
AU Tak, Rahul V.; Pal, Dhananjay; Gao, Hongwu; Dey, Surajit; Mitra, Ashim K.
CS Division of Pharmaceutical Sciences, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO, 64110, USA
SO Journal of Pharmaceutical Sciences (2001), 90(10), 1505-1515
CODEN: JPMSAE; ISSN: 0022-3549
PB Wiley-Liss, Inc.
DT Journal
LA English
IT Animal cell line
(SIRC; transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)

IT Eye
(cornea; transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)

IT Hydrolysis
(enzymic; transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)

IT Drug delivery systems
(prodrugs; transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)
IT Biological transport
(transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)
IT 59277-89-3, Acyclovir
RL: BSU (Biological study, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)
IT 64843-83-0P 64844-18-4P 102728-64-3P 124832-26-4P 154660-71-6P 364634-54-8P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)
IT 1149-26-4, N-Benzyloxycarbonyl-L-valine
RL: RCT (Reactant); RACT (Reactant or reagent)
(transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)
IT 124832-31-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Regioselective synthesis of acyclovir and its various prodrugs
AN 2001:544610 CAPLUS
DN 135:289007
TI Regioselective synthesis of acyclovir and its various prodrugs
AU Gao, Hongwu; Mitra, Ashim K.
CS Division of Pharmaceutical Science, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO, 64100-2499, USA
SO Synthetic Communications (2001), 31(9), 1399-1419
CODEN: SYNCAV; ISSN: 0039-7911
PB Marcel Dekker, Inc.
DT Journal
LA English
OS CASREACT 135:289007
IT Deacylation
(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)
IT Acyclonucleosides
Amino acids, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)
IT 73-40-5 108-55-4, Glutaric anhydride 123-76-2, Levulinic acid 405-39-0 646-06-0, 1,3-Dioxolane 1138-80-3 1538-75-6, Trimethylacetic anhydride 2082-59-9, Valeric anhydride
RL: RCT (Reactant); RACT (Reactant or reagent)
(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)
IT 3056-33-5P 54322-10-0P 59277-89-3P 75128-73-3P 139767-68-3P 166762-88-5P 247249-43-0P 364634-35-5P 364634-36-6P 364634-40-2P 364634-43-5P 364634-44-6P 364634-45-7P 364634-46-8P 364634-47-9P 364634-48-0P 364634-49-1P 364634-50-4P 364634-51-5P 364634-52-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)

IT 84499-62-7P 91702-60-2P 110104-37-5P 110882-24-1P 247249-45-2P 355117-36-1P 364634-37-7P 364634-38-8P 364634-39-9P 364634-42-4P 364634-53-7P 364634-54-8P 364635-44-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation of 3,4-diaryl-2-hydroxy-2,5-dihydrofurans as prodrugs to cyclooxygenase-2 (cox-2) inhibitors and as non-steroidal anti-inflammatory agents

AN 1997:425272 CAPLUS

DN 127:34112

TI Preparation of 3,4-diaryl-2-hydroxy-2,5-dihydrofurans as prodrugs to cyclooxygenase-2 (cox-2) inhibitors and as non-steroidal anti-inflammatory agents

IN Black, Cameron; Leger, Serge; Prasit, Petpiboon; Wang, Zhaoyin; Hamel, Pierre; Han, Yongxin; Hughes, Gregory

PA Merck Frosst Canada Inc., Can.

SO PCT Int. Appl., 213 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 9

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9716435	A1	19970509	WO 1996-CA717	19961029
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
			US 1995-8074P P	19951030
			GB 1996-2877 A	19960213
US 5698584	A	19971216	US 1996-738143	19961025
			GB 1996-2877 A	19960213
CA 2234642	AA	19970509	CA 1996-2234642	19961029
CA 2234642	C	20050726		
			US 1995-8074P P	19951030
			GB 1996-2877 A	19960213
			WO 1996-CA717 W	19961029
AU 9672736	A1	19970522	AU 1996-72736	19961029
AU 711902	B2	19991021		
			US 1995-8074P P	19951030
			GB 1996-2877 A	19960213
			WO 1996-CA717 W	19961029
JP 11500748	T2	19990119	JP 1997-516943	19961029
JP 3337477	B2	20021021		
			US 1995-8074P P	19951030
			GB 1996-2877 A	19960213
			WO 1996-CA717 W	19961029
EP 904269	A1	19990331	EP 1996-934267	19961029
EP 904269	B1	20020123		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, LI, LU, NL, SE, PT, FI				
			US 1995-8074P P	19951030

				GB 1996-2877	A	19960213
				WO 1996-CA717	W	19961029
	AT 212343	E	20020215	AT 1996-934267		19961029
				US 1995-8074P	P	19951030
				GB 1996-2877	A	19960213
				WO 1996-CA717	W	19961029
	ES 2171723	T3	20020916	ES 1996-934267		19961029
				US 1995-8074P	P	19951030
				GB 1996-2877	A	19960213
	US 6057319	A	20000502	US 1998-68139		19981002
				US 1995-8074P	P	19951030
				WO 1996-CA717	W	19961029

PATENT FAMILY INFORMATION:

FAN 1994:630494

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9413635	A1	19940623	WO 1993-CA535		19931213
	W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, UZ					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
				US 1992-989286	A	19921211
				US 1993-33397	A	19930319
				US 1993-147804	A	19931104
	US 5604260	A	19970218	US 1993-147804		19931104
				US 1992-989286	B2	19921211
				US 1993-33397	B2	19930319
	AU 9456215	A1	19940704	AU 1994-56215		19931213
				US 1992-989286	A	19921211
				US 1993-33397	A	19930319
				US 1993-147804	A	19931104
				WO 1993-CA535	W	19931213
	EP 673366	A1	19950927	EP 1994-901716		19931213
	EP 673366	B1	19981014			
	R: CH, DE, FR, GB, IT, LI, NL					
				US 1992-989286	A	19921211
				US 1993-33397	A	19930319
				US 1993-147804	A	19931104
				WO 1993-CA535	W	19931213
	JP 08504408	T2	19960514	JP 1994-513610		19931213
				US 1992-989286	A	19921211
				US 1993-33397	A	19930319
				US 1993-147804	A	19931104
				WO 1993-CA535	W	19931213

FAN 1994:680652

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9420480	A1	19940915	WO 1994-CA135		19940310
	W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TT, UA, US, UZ					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
				US 1993-30924	A	19930312
	US 5409944	A	19950425	US 1993-30924		19930312
	CA 2157107	AA	19940914	CA 1994-2157107		19940310
	CA 2157107	C	20040706			
				US 1993-30924	A	19930312
	AU 9461788	A1	19940926	AU 1994-61788		19940310
				US 1993-30924	A	19930312
				WO 1994-CA135	W	19940310

FAN 1995:468615

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE

PI	WO 9500501	A2	19950105	WO 1994-CA318		19940609
	WO 9500501	A3	19950413			
	W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KE, KG, KR, KZ, LK, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, US, UZ					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
	US 5474995	A	19951212	US 1994-179467		19940110
				US 1993-82196	B2	19930624
	AU 9469674	A1	19950117	AU 1994-69674		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	BR 9406979	A	19960305	BR 1994-6979		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	EP 705254	A1	19960410	EP 1994-918259		19940609
	EP 705254	B1	19980506			
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE					
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	JP 09500372	T2	19970114	JP 1995-502268		19940609
	JP 2977137	B2	19991110			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	RU 2131423	C1	19990610	RU 1996-100763		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	RO 115354	B1	20000128	RO 1995-2214		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	PL 178203	B1	20000331	PL 1994-312196		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	JP 2002069054	A2	20020308	JP 2001-123291		19940609
	JP 3490406	B2	20040126			
				US 1993-82196	A	19930624
				JP 1999-174678	A3	19990621
	SK 284114	B6	20040908	SK 1995-1502		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	FI 9506119	A	19951219	FI 1995-6119		19951219
	FI 112222	B1	20031114			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	BG 63161	B1	20010531	BG 1995-100247		19951221
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	NO 9505256	A	19960223	NO 1995-5256		19951222
	NO 307253	B1	20000306			

				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	JP 2000038375	A2	20000208	JP 1999-174678		19990621
	JP 3720634	B2	20051130			
				US 1993-82196	A	19930624
				JP 1995-502268	A3	19940609
	FI 2001002510	A	20011219	FI 2001-2510		20011219
	FI 114913	B1	20050131			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609

FAN 1995:810521

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	GB 2283745	A1	19950517	GB 1994-22158		19941103
				US 1993-152620	A	19931112
	US 5436265	A	19950725	US 1993-152620		19931112

FAN 1996:35001

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 5474995	A	19951212	US 1994-179467		19940110
				US 1993-82196	B2	19930624
	CA 2176973	AA	19941225	CA 1994-2176973		19940609
	CA 2176973	C	20000822			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				CA 1994-2163888	A3	19940609
	CA 2176974	AA	19941225	CA 1994-2176974		19940609
	CA 2176974	C	19990824			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				CA 1994-2163888	A3	19940609
	CA 2278241	AA	19941225	CA 1994-2278241		19940609
	CA 2278241	C	20060314			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				CA 1994-2176974	A3	19940609
	CA 2163888	AA	19950105	CA 1994-2163888		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
	CA 2364039	AA	19950105	CA 1994-2364039		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				CA 1994-2163888	A3	19940609
	WO 9500501	A2	19950105	WO 1994-CA318		19940609
	WO 9500501	A3	19950413			
	W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KE, KG, KR, KZ, LK, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, US, UZ					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
	AU 9469674	A1	19950117	AU 1994-69674		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
	BR 9406979	A	19960305	BR 1994-6979		19940609
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609

EP 705254	A1	19960410	EP 1994-918259	19940609
EP 705254	B1	19980506		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
			WO 1994-CA318	W 19940609
CN 1125944	A	19960703	CN 1994-192580	19940609
CN 1058008	B	20001101		
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
HU 74070	A2	19961028	HU 1995-3319	19940609
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
JP 09500372	T2	19970114	JP 1995-502268	19940609
JP 2977137	B2	19991110		
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
			WO 1994-CA318	W 19940609
EP 754687	A1	19970122	EP 1996-202573	19940609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
			EP 1994-918259	A3 19940609
EP 822190	A1	19980204	EP 1997-203256	19940609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI				
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
			EP 1994-918259	A3 19940609
AT 165825	E	19980515	AT 1994-918259	19940609
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
ES 2115237	T3	19980616	ES 1994-918259	19940609
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
RU 2131423	C1	19990610	RU 1996-100763	19940609
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
			WO 1994-CA318	W 19940609
RO 115354	B1	20000128	RO 1995-2214	19940609
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
			WO 1994-CA318	W 19940609
EP 980866	A2	20000223	EP 1999-202239	19940609
EP 980866	A3	20000308		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI				
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
			EP 1996-202573	A3 19940609
PL 178203	B1	20000331	PL 1994-312196	19940609
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
			WO 1994-CA318	W 19940609
CZ 288175	B6	20010516	CZ 1995-3146	19940609
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110
JP 2002069054	A2	20020308	JP 2001-123291	19940609
JP 3490406	B2	20040126		
			US 1993-82196	A 19930624
			JP 1999-174678	A3 19990621
SK 284114	B6	20040908	SK 1995-1502	19940609
			US 1993-82196	A 19930624
			US 1994-179467	A 19940110

				WO 1994-CA318	W	19940609
IL 110031		A1	20000131	IL 1994-110031		19940616
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
IL 123002		A1	20010430	IL 1994-123002		19940616
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				IL 1994-110031	A3	19940616
ZA 9404501		A	19950313	ZA 1994-4501		19940623
				US 1993-82196	A	19930624
CA 2180651		AA	19950713	CA 1994-2180651		19941219
				US 1994-179467	A	19940110
WO 9518799		A1	19950713	WO 1994-CA688		19941219
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, UZ						
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG						
				US 1994-179467	A	19940110
AU 9512694		A1	19950801	AU 1995-12694		19941219
				US 1994-179467	A	19940110
				WO 1994-CA688	W	19941219
EP 739340		A1	19961030	EP 1995-903727		19941219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE						
				US 1994-179467	A	19940110
				WO 1994-CA688	W	19941219
CN 1143365		A	19970219	CN 1994-195045		19941219
				US 1994-179467	A	19940110
HU 74986		A2	19970328	HU 1996-1875		19941219
				US 1994-179467	A	19940110
JP 09506631		T2	19970630	JP 1995-518234		19941219
JP 2788677		B2	19980820			
				US 1994-179467	A	19940110
				WO 1994-CA688	W	19941219
BR 9408478		A	19970826	BR 1994-8478		19941219
				US 1994-179467	A	19940110
				WO 1994-CA688	W	19941219
US 5536752		A	19960716	US 1995-436672		19950508
				US 1993-82196	B2	19930624
				US 1994-179467	A3	19940110
US 5550142		A	19960827	US 1995-438130		19950508
				US 1993-82196	B2	19930624
				US 1994-179467	A3	19940110
FI 9506119		A	19951219	FI 1995-6119		19951219
FI 112222		B1	20031114			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
BG 63161		B1	20010531	BG 1995-100247		19951221
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
NO 9505256		A	19960223	NO 1995-5256		19951222
NO 307253		B1	20000306			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609
NO 9600393		A	19960709	NO 1996-393		19960130
				US 1994-179467	A	19940110
				WO 1994-CA688	W	19941219
BG 63082		B1	20010330	BG 1996-100350		19960212

				US 1994-179467	A	19940110
				WO 1994-CA688	W	19941219
	FI 9602800	A	19960906	FI 1996-2800		19960709
	FI 108792	B1	20020328			
				US 1994-179467	A	19940110
				WO 1994-CA688	W	19941219
	AU 9661970	A1	19961031	AU 1996-61970		19960807
	AU 691119	B2	19980507			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
	US 5710140	A	19980120	US 1996-699142		19960816
				US 1993-82196	B2	19930624
				US 1994-179467	A3	19940110
				US 1995-436758	B1	19950508
	AU 9719132	A1	19970814	AU 1997-19132		19970428
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				US 1995-8074P	P	19951030
				GB 1996-2877	A	19960213
	US 5840746	A	19981124	US 1997-926291		19970905
				US 1993-82196	B2	19930624
				US 1993-147804	A2	19931104
				US 1993-152620	A2	19931112
				US 1994-179467	A2	19940110
				GB 1994-20616	A	19941012
				US 1995-461783	B2	19950605
				US 1995-539930	B2	19951006
	HK 1027474	A1	20010112	HK 1998-109765		19980807
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
	LV 12209	B	19990320	LV 1998-238		19981026
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
	JP 2000038375	A2	20000208	JP 1999-174678		19990621
	JP 3720634	B2	20051130			
				US 1993-82196	A	19930624
				JP 1995-502268	A3	19940609
	US 6239173	B1	20010529	US 1999-443000		19991118
				US 1993-82196	B2	19930624
				US 1994-179467	A3	19940110
				US 1995-435060	B1	19950508
				US 1996-672562	A1	19960628
	CN 1295065	A	20010516	CN 2000-100981		20000112
	CN 1129576	B	20031203			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
	US 2001016595	A1	20010823	US 2001-796211		20010228
	US 6486194	B2	20021126			
				US 1993-82196	B2	19930624
				US 1994-179467	A2	19940110
				GB 1994-20616	A	19941012
				US 1995-461783	B2	19950605
				US 1995-539930	B2	19951006
				US 1998-161516	B1	19980928
				US 2000-552974	B1	20000420
	FI 2001002510	A	20011219	FI 2001-2510		20011219
	FI 114913	B1	20050131			
				US 1993-82196	A	19930624
				US 1994-179467	A	19940110
				WO 1994-CA318	W	19940609

FAN 1996:404757

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9611676	A1	19960425	WO 1995-GB2382		19951009
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT					
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
				GB 1994-20616	A	19941012
	IL 115505	A1	19991231	IL 1995-115505		19951003
				GB 1994-20616	A	19941012
	CA 2202173	AA	19960425	CA 1995-2202173		19951009
				GB 1994-20616	A	19941012
				WO 1995-GB2382	W	19951009
	AU 9536139	A1	19960506	AU 1995-36139		19951009
	AU 715676	B2	20000210			
				AU 1994-61788	A	19940310
				GB 1994-20616	A	19941012
				WO 1995-GB2382	W	19951009
	EP 785778	A1	19970730	EP 1995-933509		19951009
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE					
				GB 1994-20616	A	19941012
				WO 1995-GB2382	W	19951009
	JP 10507445	T2	19980721	JP 1996-512770		19951009
				GB 1994-20616	A	19941012
				WO 1995-GB2382	W	19951009
	ZA 9508558	A	19970404	ZA 1995-8558		19951011
				GB 1994-20616	A	19941012

FAN 1997:140418

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 5604260	A	19970218	US 1993-147804		19931104
				US 1992-989286	B2	19921211
				US 1993-33397	B2	19930319
	CA 2151235	AA	19940623	CA 1993-2151235		19931213
				US 1992-989286	A	19921211
				US 1993-33397	A	19930319
				US 1993-147804	A	19931104
	WO 9413635	A1	19940623	WO 1993-CA535		19931213
	W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, UZ					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
				US 1992-989286	A	19921211
				US 1993-33397	A	19930319
				US 1993-147804	A	19931104
	AU 9456215	A1	19940704	AU 1994-56215		19931213
				US 1992-989286	A	19921211
				US 1993-33397	A	19930319
				US 1993-147804	A	19931104
				WO 1993-CA535	W	19931213
	EP 673366	A1	19950927	EP 1994-901716		19931213
	EP 673366	B1	19981014			
	R: CH, DE, FR, GB, IT, LI, NL					
				US 1992-989286	A	19921211
				US 1993-33397	A	19930319
				US 1993-147804	A	19931104
				WO 1993-CA535	W	19931213
	JP 08504408	T2	19960514	JP 1994-513610		19931213
				US 1992-989286	A	19921211
				US 1993-33397	A	19930319

				US 1993-147804	A 19931104
				WO 1993-CA535	W 19931213
	US 5840746	A	19981124	US 1997-926291	19970905
				US 1993-82196	B2 19930624
				US 1993-147804	A2 19931104
				US 1993-152620	A2 19931112
				US 1994-179467	A2 19940110
				GB 1994-20616	A 19941012
				US 1995-461783	B2 19950605
				US 1995-539930	B2 19951006
	US 38103	E	20030429	US 2001-827508	20010406
				US 1992-989286	B2 19921211
				US 1993-33397	B2 19930319
				US 1993-147804	A5 19931104

FAN 1998:774241

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5840746	A	19981124	US 1997-926291	19970905
				US 1993-82196	B2 19930624
				US 1993-147804	A2 19931104
				US 1993-152620	A2 19931112
				US 1994-179467	A2 19940110
				GB 1994-20616	A 19941012
				US 1995-461783	B2 19950605
				US 1995-539930	B2 19951006
	US 5604260	A	19970218	US 1993-147804	19931104
				US 1992-989286	B2 19921211
				US 1993-33397	B2 19930319
	US 5436265	A	19950725	US 1993-152620	19931112
	US 5474995	A	19951212	US 1994-179467	19940110
				US 1993-82196	B2 19930624
	JP 2002069054	A2	20020308	JP 2001-123291	19940609
	JP 3490406	B2	20040126		
				US 1993-82196	A 19930624
				JP 1999-174678	A3 19990621
	JP 2000038375	A2	20000208	JP 1999-174678	19990621
	JP 3720634	B2	20051130		
				US 1993-82196	A 19930624
				JP 1995-502268	A3 19940609

OS MARPAT 127:34112

IT Anti-inflammatory agents
(preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory diarylhydroxydihydrofuranones and selective cyclooxygenase-2 inhibitors)

IT Drug delivery systems
(prodrugs; preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory diarylhydroxydihydrofuranones and selective cyclooxygenase-2 inhibitors)

IT 39391-18-9, Cyclooxygenase
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study); PROC (Process)
(2; preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory diarylhydroxydihydrofuranones and selective cyclooxygenase-2 inhibitors)

IT 189954-13-0P 189954-14-1P 189954-15-2P 189954-16-3P 189954-17-4P
189954-18-5P 189954-19-6P 189954-20-9P 189954-21-0P 189954-22-1P
189954-23-2P 189954-24-3P 189954-25-4P 189954-26-5P 189954-27-6P
189954-28-7P 189954-29-8P 189954-30-1P 189954-32-3P 189954-33-4P
189954-34-5P 189954-35-6P 189954-36-7P 189954-37-8P 189954-38-9P
189954-39-0P 189954-40-3P 189954-41-4P 189954-42-5P 189954-43-6P
189954-44-7P 189954-45-8P 189954-46-9P 189954-47-0P 189954-48-1P

189954-49-2P 189954-50-5P 189954-51-6P 189954-52-7P 189954-53-8P
189954-54-9P 189954-55-0P 189954-56-1P 189954-57-2P 189954-58-3P
189954-59-4P 189954-61-8P 189954-62-9P 189954-66-3P 189954-67-4P
189954-68-5P 189954-69-6P 189954-70-9P 189954-71-0P 189954-72-1P
189954-73-2P 189954-74-3P 189954-75-4P 189954-76-5P 189954-77-6P
189954-78-7P 189954-79-8P 189954-80-1P 189954-81-2P 189954-82-3P
189954-83-4P 189954-84-5P 189954-85-6P 189954-86-7P 189954-87-8P
189954-88-9P 189954-90-3P 189954-91-4P 189954-92-5P 189954-93-6P
189954-96-9P 189954-97-0P 189954-98-1P 189954-99-2P 189955-00-8P
189955-01-9P 189955-03-1P 189955-04-2P 189955-05-3P 189955-07-5P
189955-13-3P 189955-15-5P 189955-22-4P 189955-25-7P 189955-28-0P
189955-31-5P 189955-34-8P 189955-37-1P 189955-40-6P 189955-42-8P
189955-44-0P 189955-46-2P 189955-48-4P 189955-50-8P 189955-52-0P
189955-62-2P 189955-63-3P 189955-64-4P 189955-65-5P 189955-66-6P
189955-67-7P 189955-68-8P 189955-69-9P 189955-70-2P 189955-71-3P
189955-72-4P 189957-46-8P 189957-47-9P 190966-37-1P 190966-38-2P
190966-39-3P 190966-40-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory diarylhydroxydihydrofuranones and selective cyclooxygenase-2 inhibitors)

IT 59-31-4, 2-Hydroxyquinoline 59-50-7, 4-Chloro-3-methylphenol 62-53-3, Benzenamine, reactions 67-63-0, Isopropyl alcohol, reactions 75-30-9, 2-Iodopropane 75-36-5, Acetyl chloride 78-77-3, 1-Bromo-2-methylpropane 78-85-3, Methacrolein 79-03-8, Propionyl chloride 79-08-3, Bromoacetic acid 79-11-8, Chloroacetic acid, reactions 79-30-1, Isobutyryl chloride 96-32-2, Methyl bromoacetate 98-17-9, 3-Trifluoromethylphenol 98-88-4, Benzoyl chloride 100-61-8, N-Methylaniline, reactions 100-68-5, Thioanisole 103-04-8, (Phenylthio)acetic acid 104-92-7, 4-Bromoanisole 104-95-0, 4-Bromothioanisole 105-36-2, Ethyl bromoacetate 108-24-7, Acetic anhydride 108-95-2, Phenol, reactions 108-96-3, 4-Pyridone 109-00-2, 3-Hydroxypyridine 109-89-7, Diethylamine, reactions 109-92-2 122-88-3, 4-Chlorophenoxyacetic acid 123-31-9, 1,4-Benzenediol, reactions 124-63-0, Methanesulfonyl chloride 137-43-9, Cyclopentyl bromide 142-08-5, 2-Hydroxypyridine 150-76-5, 4-Methoxyphenol 331-25-9, 3-Fluorophenylacetic acid 331-41-9, 4-Chloro-3-fluorophenoxyacetic acid 353-83-3, 1,1,1-Trifluoro-2-iodoethane 367-27-1, 2,4-Difluorophenol 370-58-1, 3,4-Difluorophenoxyacetic acid 371-41-5, 4-Fluorophenol 372-20-3, 3-Fluorophenol 400-38-4, Isopropyl trifluoroacetate 404-98-8, 3-Fluorophenoxyacetic acid 405-50-5, 4-Fluorophenylacetic acid 405-79-8, 4-Fluorophenoxyacetic acid 421-50-1, 1,1,1-Trifluoroacetone 491-30-5, 1-Hydroxyisoquinoline 491-36-1, 4-Hydroxyquinazoline 513-48-4, 2-Iodobutane 584-02-1, 3-Pentanol 588-20-5, 4-Chloro-3-methylphenoxyacetic acid 588-22-7, 3,4-Dichlorophenoxyacetic acid 598-21-0, Bromoacetyl bromide 626-55-1, 3-Bromopyridine 645-45-4, 3-Phenylpropionyl chloride 765-42-4, α-Methylcyclopropanemethanol 772-70-3, 3-(4-Fluorophenyl)propionyl chloride 917-54-4, Methyllithium 930-30-3, 2-Cyclopenten-1-one 941-55-9, Tosyl azide 1071-46-1, Ethyl hydrogen malonate 1121-25-1, 3-Hydroxy-2-methylpyridine 1121-78-4, 5-Hydroxy-2-methylpyridine 1547-29-1, 3-Fluoro-2-hydroxypyridine 1603-40-3, 2-Amino-3-methylpyridine 1603-41-4, 2-Amino-5-picoline 1826-67-1, Vinylmagnesium bromide 1878-91-7, 4-Bromophenoxyacetic acid 2439-04-5, 5-Hydroxyisoquinoline 2613-23-2, 3-Chloro-4-fluorophenol 2713-33-9, 3,4-Difluorophenol 3279-76-3, 2-Hydroxy-6-methylpyridine 3446-89-7, 4-Methylthiobenzaldehyde 3926-62-3, Sodium chloroacetate 4214-79-3, 5-Chloro-2-pyridinol 4524-93-0, Cyclopentanecarbonyl chloride 4568-71-2, 3-Benzyl-5-(2-hydroxyethyl)-4-methylthiazolium chloride 5154-00-7, 2-Hydroxy-6-aminopyridine 5238-27-7, 2-Methylvaleryl chloride

5418-51-9, 2-Hydroxy-5-nitropyridine 5419-55-6, Triisopropyl borate
5437-33-2, 3,5-Dichloro-2-pyridone 5470-18-8, 2-Chloro-3-nitropyridine
5685-05-2, 2-Mercaptothiazole 5728-07-4, 3-Hydroxy-1,2,5-thiadiazole
6628-77-9, 5-Amino-2-methoxypyridine 7051-34-5, Cyclopropylmethyl
bromide 7651-81-2, 3-Hydroxyisoquinoline 7651-82-3,
6-Hydroxyisoquinoline 7677-24-9, Trimethylsilyl cyanide 13466-35-8,
3-Chloro-2-pyridinol 13466-38-1, 5-Bromo-2-hydroxypyridine 13466-41-6,
2-Hydroxy-4-methylpyridine 13599-84-3, 6-Hydroxybenzothiazole
13831-31-7, Acetoxyacetyl chloride 15501-33-4, Neopentyl iodide
16879-02-0, 6-Chloro-2-hydroxypyridine 16940-81-1, Hydrogen
hexafluorophosphate 19301-35-0, 5-Hydroxybenzothiophene 22280-60-0,
3-Nitro-6-chloro-2-picoline 22627-70-9, 3-Ethoxy-2-cyclopenten-1-one
22748-16-9 23056-33-9, 2-Chloro-4-methyl-5-nitropyridine 30806-83-8,
Ethyl 4-isocyanatobenzoate 34036-07-2, 3,4-Difluorobenzaldehyde
38353-09-2, 2-Hydroxypyrimidine hydrochloride 40771-41-3,
5-Chloro-2-mercaptopyridine 41288-96-4, 2-Chloro-5-hydroxypyridine
50413-24-6, 2-Bromo-1-(4-methylsulfonylphenyl)ethanone 51173-05-8,
5-Fluoro-2-hydroxypyridine 52129-99-4 66613-51-2, 1-Phenoxybut-3-en-2-
one 69566-95-6, 1-(4-Methylsulfonylphenyl)propan-1-one 71995-54-5,
Cyclohexyloxyacetic acid 77227-78-2, 2-Fluoro-4-trifluoromethylphenol
81037-06-1 81286-85-3 99389-26-1, 3,5-Difluorothiophenol
120681-01-8, (1-Indanyloxy)acetic acid 136564-78-8, 2-Methyl-4,4,4-
trifluorobutyryl chloride 156545-07-2, 3,5-Difluorophenylboronic acid
189956-35-2 189956-37-4 189956-38-5 189956-41-0, Cyclobutoxyacetic
acid 189956-42-1, (2-Indanyloxy)acetic acid 190966-65-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of diarylhydroxydihydrofurans as prodrugs for
antiinflammatory diarylhydroxydihydrofuranones and selective
cyclooxygenase-2 inhibitors)

IT 1003-56-1P, 2-Hydroxy-3-methylpyridine 1003-68-5P, 2-Hydroxy-5-
methylpyridine 10481-34-2P, 2-Bromo-2-cyclopenten-1-one 20872-28-0P,
Ethyl 4-hydroxyphenoxyacetate 33445-07-7P, Isopropoxyacetic acid
51173-03-6P 51834-97-0P, 5-Hydroxy-2-methoxypyridine 53207-58-2P
58243-27-9P, 5-Acetoxy-2-methoxypyridine 59209-37-9P 60670-47-5P,
3,3-Dimethylcyclopentanol 62489-81-0P, Ethyl 3-chloro-4-
hydroxyphenoxyacetate 71867-98-6P 88324-55-4P 98026-98-3P,
3-Diazo-2,4-(3H,5H)-furandione 128586-37-8P 178402-36-3P
180048-73-1P 180048-75-3P 180048-76-4P 189955-73-5P 189955-74-6P
189955-75-7P 189955-76-8P 189955-77-9P 189955-78-0P 189955-79-1P
189955-80-4P 189955-81-5P 189955-82-6P 189955-83-7P 189955-84-8P
189955-85-9P 189955-86-0P 189955-87-1P 189955-89-3P 189955-90-6P
189955-91-7P, Pent-3-yloxyacetic acid 189955-92-8P 189955-93-9P
189955-94-0P 189955-95-1P 189955-96-2P 189955-97-3P 189955-98-4P
189955-99-5P 189956-00-1P 189956-01-2P 189956-02-3P 189956-03-4P,
(1-Cyclopropylethoxy)acetic acid 189956-05-6P 189956-06-7P
189956-07-8P 189956-08-9P 189956-09-0P 189956-10-3P 189956-13-6P
189956-14-7P 189956-15-8P 189956-16-9P 189956-17-0P 189956-18-1P
189956-19-2P 189956-20-5P, 3-Iodo-1,1-dimethylcyclopentane
189956-21-6P 189956-22-7P 189956-23-8P 189956-24-9P,
3-Chloro-4-methoxyphenoxyacetic acid 189956-25-0P 189956-26-1P
189956-27-2P 189956-28-3P 189956-29-4P 189956-30-7P 189956-31-8P
189956-32-9P 189956-33-0P 189956-34-1P 189956-39-6P 189956-43-2P,
Ethyl 3-chloro-4-methoxyphenoxyacetate 190966-41-7P 190966-42-8P
190966-43-9P 190966-44-0P 190966-45-1P 190966-46-2P 190966-47-3P
190966-48-4P 190966-49-5P, 3,4-Difluorophenoxymethyl vinyl ketone
190966-50-8P, (3,5-Difluorophenylthio)acetic acid 190966-51-9P
190966-52-0P 190966-54-2P 190966-55-3P 190966-56-4P 190966-57-5P
190966-58-6P 190966-59-7P 190966-60-0P, Lithium 3-
pyridyltrimethylborate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory

diarylhydroxydihydrofuranones and selective cyclooxygenase-2 inhibitors)

IT 190966-03-1P 190966-04-2P 190966-05-3P 190966-06-4P 190966-08-6P
190966-10-0P 190966-11-1P 190966-12-2P 190966-13-3P 190966-14-4P
190966-15-5P 190966-16-6P 190966-18-8P 190966-19-9P 190966-21-3P
190966-23-5P 190966-25-7P 190966-26-8P 190966-28-0P 190966-30-4P
190966-31-5P 190966-32-6P 190966-33-7P 190966-34-8P 190966-35-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prodrug; preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory diarylhydroxydihydrofuranones and selective cyclooxygenase-2 inhibitors)

L6 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for preparing dioxolenone derivatives used for making prodrug esters and intermediates
AN 1997:204430 CAPLUS
DN 126:238373
TI Process for preparing dioxolenone derivatives used for making prodrug esters and intermediates
IN Cheng, Peter T. W.; Sun, Chong-oing; Poss, Michael A.
PA Bristol-Myers Squibb Company, USA
SO U.S., 23 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5610314	A	19970311	US 1995-415799	19950403
			US 1995-415799	19950403

OS CASREACT 126:238373; MARPAT 126:238373
IT Drug delivery systems
(prodrugs; preparation of dioxolenone derivs. as prodrugs for squalene synthetase inhibitors)
IT 9077-14-9D, Squalene synthetase, inhibitors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of dioxolenone derivs. as prodrugs for squalene synthetase inhibitors)
IT 1344-67-8, Copper chloride 5503-41-3, Rhodium diacetate 7440-50-8, Copper, uses
RL: CAT (Catalyst use); USES (Uses)
(preparation of dioxolenone derivs. as prodrugs for squalene synthetase inhibitors)
IT 75-44-5, Carbonic dichloride 79-37-8, Oxalyl chloride 101-02-0, Triphenyl phosphite 109-02-4, N-Methylmorpholine 110-86-1, Pyridine, reactions 121-44-8, reactions 329-15-7, p-(Trifluoromethyl)benzoyl chloride 503-38-8, Diphosgene 530-62-1, 1,1'-Carbonyldiimidazole 558-13-4, Carbon tetrabromide 603-35-0, Triphenylphosphine, reactions 998-40-3, Tributylphosphine 3249-68-1, Ethyl butyrylacetate 4949-44-4, Ethyl propionylacetate 6148-64-7, Ethyl potassium malonate 7087-68-5, Diisopropylethylamine 7152-15-0, Ethyl isobutyrylacetate 7719-09-7, Thionyl chloride 7719-12-2, Phosphorus trichloride 7726-95-6, Bromine, reactions 7737-62-4, Ethyl 3-oxoheptanoate 7789-60-8, Phosphorus tribromide 16940-66-2, Sodium borohydride 17476-04-9, Lithium tri(tert-butoxy)aluminum hydride 32315-10-9, Triphosgene 33725-74-5, Tetrabutylammonium borohydride 55107-14-7, Methyl 4,4-dimethyl-3-oxopentanoate 188526-11-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of dioxolenone derivs. as prodrugs for squalene synthetase inhibitors)

```
IT   2158-14-7P, 4-Acetamidobenzenesulfonyl azide   4949-45-5P, Benzyl
     3-oxopentanoate   5006-35-9P   66696-91-1P   77902-92-2P   86005-12-1P
     86978-73-6P   94250-56-3P   106263-53-0P   188525-84-0P   188525-85-1P
     188525-86-2P   188525-88-4P   188525-89-5P   188525-90-8P   188525-92-0P
     188525-93-1P   188525-95-3P   188525-96-4P   188525-97-5P   188525-99-7P
     188526-00-3P   188526-01-4P   188526-03-6P   188526-04-7P   188526-05-8P
     188526-07-0P   188526-08-1P   188526-09-2P   188526-10-5P   188526-12-7P
     188526-13-8P   188526-14-9P   188526-15-0P   188526-16-1P   188526-17-2P
     188526-18-3P   188526-19-4P   188526-20-7P   188526-21-8P   188526-22-9P
     188526-23-0P   188526-24-1P   188526-25-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of dioxolenone derivs. as prodrugs for squalene synthetase
        inhibitors)
IT   188525-87-3P   188525-91-9P   188525-94-2P   188525-98-6P   188526-02-5P
     188526-06-9P
     RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (preparation of dioxolenone derivs. as prodrugs for squalene synthetase
        inhibitors)


=> dhis
L7          21 DHIS

=> d his

     (FILE 'HOME' ENTERED AT 14:24:44 ON 27 NOV 2006)

     FILE 'REGISTRY' ENTERED AT 14:25:01 ON 27 NOV 2006
L1              STRUCTURE UPLOADED
L2            2 SEARCH L1 SSS SAM
L3          987 SEARCH L1 SSS FULL
                SAVE TEMP L3 HEMIMALONT/A

     FILE 'CAPLUS' ENTERED AT 14:31:09 ON 27 NOV 2006
L4         2980 L3
L5        16059 PRODRUG
L6            9 L4 (L)L5
L7           21 DHIS

=> dsave temp l4 refsfnd/a
SAVED ANSWER SET NAME MAY NOT BE USED IN QUERIES 'REFSFND/A'
Saved answer sets must be activated before they are used in search
profiles.  This must be done in the same file in which they were
created.  Use the FILE command to change files if necessary, then
enter "ACTIVATE" followed by the saved name (including /A) at an arrow
prompt (=>).  Use the L# assigned to the answer set in your search
profile.

=> save temp l4 refsfnd/a
ANSWER SET L4 HAS BEEN SAVED AS 'REFSFND/A'

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                  39.29     212.30

FILE 'REGISTRY' ENTERED AT 14:47:19 ON 27 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)
```

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 26 NOV 2006 HIGHEST RN 913953-45-4
DICTIONARY FILE UPDATES: 26 NOV 2006 HIGHEST RN 913953-45-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

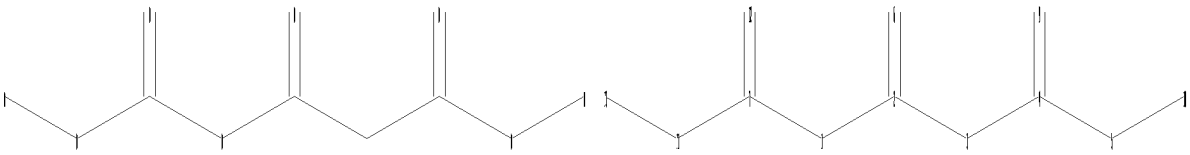
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10531382\10531382 carbonyloxy subset.str

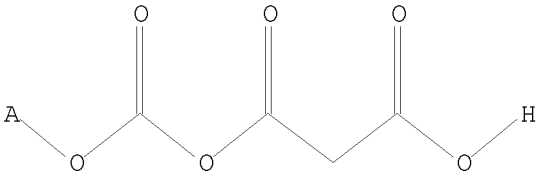


chain nodes :
1 2 3 4 5 6 7 9 10 11 12 13
chain bonds :
1-2 1-7 2-3 2-6 3-4 4-5 4-9 5-10 7-11 7-12 11-13
exact/norm bonds :
1-2 1-7 2-6 7-11 7-12 11-13
exact bonds :
2-3 3-4 5-10
normalized bonds :
4-5 4-9

Hydrogen count :
3:>= minimum 2 5:>= minimum 1
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS

L8   STRUCTURE UPLOADED

=> d l8
L8 HAS NO ANSWERS
L8   STR



Structure attributes must be viewed using STN Express query preparation.

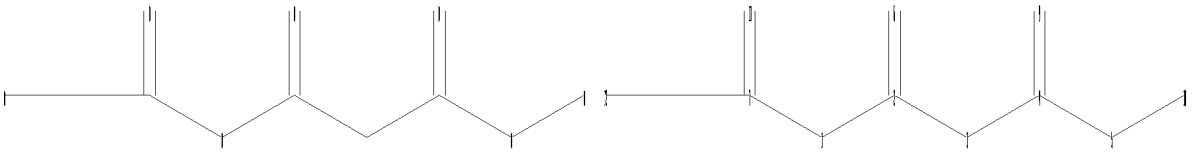
```
=> search l8 subset = l3 sss sam
SAMPLE SUBSET SEARCH INITIATED 14:49:16 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED -        1 TO ITERATE

100.0% PROCESSED        1 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.02

PROJECTIONS (WITHIN SPECIFIED SUBSET):           ONLINE  **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):            1 TO       80
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):               0 TO        0

L9            0 SEA SUB=L3 SSS SAM L8

=> search l8 subset = l3 sss full
FULL SUBSET SEARCH INITIATED 14:49:36 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -       10 TO ITERATE

100.0% PROCESSED       10 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L10           0 SEA SUB=L3 SSS FUL L8

=> d cost
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CONNECT CHARGES                                           1.52      16.27
NETWORK CHARGES                                           0.24       2.52
SEARCH CHARGES                                           39.40     209.80
DISPLAY CHARGES                                           0.00      24.87
                                                        -------    -------
FULL ESTIMATED COST                                      41.16     253.46

IN FILE 'REGISTRY' AT 14:49:43 ON 27 NOV 2006


=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      41.60     253.90

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:50:17 ON 27 NOV 2006

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x
```

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 14:52:01 ON 27 NOV 2006
FILE 'REGISTRY' ENTERED AT 14:52:01 ON 27 NOV 2006

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	41.60	253.90

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10531382\10531382 not oxycarbonyloxy subset.str

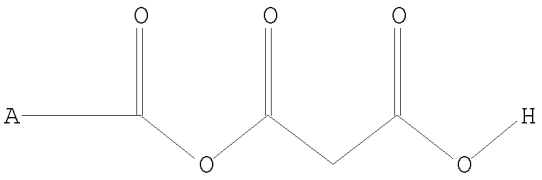


chain nodes :
1 2 3 4 5 6 7 9 10 11 12
chain bonds :
1-2 1-7 2-3 2-6 3-4 4-5 4-9 5-10 7-11 7-12
exact/norm bonds :
1-2 1-7 2-6 7-11 7-12
exact bonds :
2-3 3-4 5-10
normalized bonds :
4-5 4-9

Hydrogen count :
3:>= minimum 2 5:>= minimum 1
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS

L11   STRUCTURE UPLOADED

=> d l11
L11 HAS NO ANSWERS
L11   STR



Structure attributes must be viewed using STN Express query preparation.

=> search l11 subset = l3 sss sam

SAMPLE SUBSET SEARCH INITIATED 14:52:57 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET): ONLINE **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET): 3 TO 163
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET): 0 TO 0

L12 0 SEA SUB=L3 SSS SAM L11

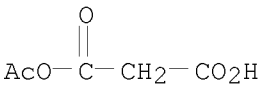
=> search l11 subset = l3 sss full
FULL SUBSET SEARCH INITIATED 14:53:05 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 54 TO ITERATE

100.0% PROCESSED 54 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L13 1 SEA SUB=L3 SSS FUL L11

=> d scan

L13 1 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Acetic acid, anhydride with malonic acid (5CI)
MF C5 H6 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 81.88 294.18

FILE 'CAPLUS' ENTERED AT 14:53:21 ON 27 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 27 Nov 2006 VOL 145 ISS 23

FILE LAST UPDATED: 26 Nov 2006 (20061126/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> l1
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 14:53:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   24708 TO ITERATE

  8.1% PROCESSED   2000 ITERATIONS   2 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 484755 TO   503565
PROJECTED ANSWERS: 196 TO   792

L14   2 SEA SSS SAM L1

L15   2 L14

=> l13
L16   3 L13

=> d l16 1-3 ti fbib abs

L16 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI   β-Lactones and β-lactono acids. VI. Mechanism of formation of
     β-lactono acids
AN   1951:3420 CAPLUS
DN   45:3420
OREF 45:556a-g
TI   β-Lactones and β-lactono acids. VI. Mechanism of formation of
     β-lactono acids
AU   Vul'fson, N. S.
SO   Zhurnal Obshchei Khimii (1950), 20, 425-34
     CODEN: ZOKHA4; ISSN: 0044-460X
DT   Journal
LA   Unavailable
GI   For diagram(s), see printed CA Issue.
AB   cf. C.A. 44, 6392a. It has been shown that only the neutral malonic
     acetic anhydride (I) is capable of reacting with carbonyl derivs.; the
     mixed acidic anhydride does not react. H2SO4, which catalyzes the
     anhydride formation, does not participate in the reaction with CO derivs.
     The 1st step of the reaction of I with Me2CO is the formation of the mixed
     anhydride of AcOH and Me2C(OH)CH(CO2H)2, which undergoes an intramol.
     reaction yielding the lactono-acid and Ac2O. Crude I and Me2CO, allowed
     to stand overnight, readily yield 48.6-55.5% isopropylidenemalono-β-
     lactone, RR'C.CH(CO2H).CO.O(R,R' = Me) m. 96-7° (from Me2CO or

C6H6), also obtained in 48.6% yield from 6.4 g. CH2(CO2Ag)2 in 10 g. dry Me2CO with 10 g. AcCl (added dropwise), followed by filtration and standing overnight; BzCl instead AcCl gives the same product, in addition to some BzOH (amts. unstated). The crude I from 10 g. CH2(CO2H)2 and 10 g. BzH, let stand overnight, gave 27.9% benzylidenemalono-β-lactone, m. 145-6° (decomposition; from Me2CO-C6H6), also obtained (1 g.) by addition of 6.4 g. CH2(CO2)2Ag to 10 g. BzH, followed by 5 g. AcCl. m-O2NC6H4CHO in the 1st reaction gave 0.4 g. m-NO2 analog, m. 158.5-59.0° (from MeOH), while cyclohexanone (10 g.) gave 1.5 g. cyclohexylidenemalono-β-lactone, m. 84-5°. The lactono acids were isolated in the form of the resp. Ag salts (undescribed and used only for analyses). When Me2CH:C(CO2H)2 was treated with a trace of H2SO4 in Ac2O, no lactonization took place even in 3 days, nor did its di-Ag salt yield any lactone with AcCl in Me2CO; the benzylidene analog behaved similarly. Addition of 3 drops concentrated H2SO4 to 6.2 g. Me2C:CHCO2H in 25 ml. Ac2O, followed by 2 hrs. at 60° and standing for 2 days gave, after distillation of the Ac2O in vacuo and washing the residue with Na2CO3 solution (in Et2O), 4 g. isopropylideneacetic anhydride, b13 140-2°, b2 117-18°, which yields the anilide, m. 127.5-8.0° (from EtOH); 0.5 g. original acid is reclaimed. Me2C:CHCO2Ag with AcCl in Et2O gave only the free acid, m. 67.5-9.0°. Addition of 10 g. AcCl to 6.4 g. CH2(CO2Ag)2 in 15 ml. dry Me2CO, followed by filtration and separation of the filtrate into parts (a) and (b) gave: from part (a), allowed to stand 2 hrs. after filtration, an unstated amount of CH2(CO2H)2, and from part (b), allowed to stand 1 day, an unstated amount of isopropylidenemalono-β-lactone. A similar reaction in which the 24-hr. filtrate was treated with dry MeOH gave MeOAc, CH2(CO2Me)2, AcOH, and a small amount of the above lactone. PhOH instead of MeOH gave di-Ph malonate, m. 48.5-9.5°. Distillation of the 24-hr. filtrate yielded a small amount of Ac2O and the above lactone.

L16 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI Research in β-lactones and β-lactono acids. V. Mixed anhydrides of malonic and acetic acids
AN 1950:33330 CAPLUS
DN 44:33330
OREF 44:6392a
TI Research in β-lactones and β-lactono acids. V. Mixed anhydrides of malonic and acetic acids
AU Vul'fson, N. S.
SO Zhurnal Obshchei Khimii (1949), 19(No. 10), a369-81
CODEN: ZOKHA4; ISSN: 0044-460X
DT Journal
LA English
AB See C.A. 44, 1901f.

L16 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI β-Lactones and β-lactono acids. V. Mixed anhydrides of malonic and acetic acids
AN 1950:9932 CAPLUS
DN 44:9932
OREF 44:1901e-i,1902a-c
TI β-Lactones and β-lactono acids. V. Mixed anhydrides of malonic and acetic acids
AU Vul'fson, N. S.
CS J. Gen. Chem.
SO Zhurnal Obshchei Khimii (1949), 19, 1904-16
CODEN: ZOKHA4; ISSN: 0044-460X
DT Journal
LA Unavailable
OS CASREACT 44:9932
AB cf. C.A. 38, 3255.2. CH2(CO2H)2 with Ac2O yields 2 mixed acetic-malonic anhydrides in a reaction catalyzed by H2SO4. Shaking 10 g. powdered

CH2(CO2H)2, 40 g. Ac2O, and 3 drops H2SO4 until solution occurs and letting stand overnight, followed by concentration in vacuo at 40-50°, gave a sirup which on treatment with 15 ml. absolute EtOH, followed by cooling and extraction with Et2O, gave 1.5 g. MeOAc and 60% CH2(CO2Me)2 (I), b13 74-7°, nD20 1.4140, while an extract with Na2CO3 gave 24.7% HO2CCH2CO2Me (II), b50 145-8° (decomposition). If the reaction mixture above after vacuum concentration is extracted with Et2O and the extract is treated with MeOH, there is formed 2.6 g. MeOAc, 51% I, and 22% II, as wall as a trace of CH2(CO2H)2. Similar results are obtained if H2SO4 is omitted and the mixture is allowed to stand 24 hrs. before concentration and reaction with MeOH.

(CH2CO2Ag)2 (12.8 g.) with 6.3 g. AcCl in Et2O gave upon filtration a yellow sirup, which gave 93.5% I with MeOH; 8.4 g. Ag salt and 3.1 g. AcCl gave 84.7% II and 13.5% MeOAc. The mixed anhydride from 10 g. CH2(CO2H)2 and 40 g. Ac2O gave with 20 g. BuOH, 2.7 g. CH2(CO2H)2, 39% HO2CCH2CO2Bu (undistillable without decomposition), and 14.5% di-Bu ester, as well as 3.5 g. BuOAc; similar reaction with 12 g. Me3COH gave 35.7% HO2CCH2CO2CMe3 (isolated as the Ag salt), and 14.5% di-tert-Bu ester, b. 220-5° (with some decomposition), as well as 1 g. tert-BuOAc; 2-octanol (25 g.) gave 2.2 g. CH2(CO2H)2, 0.5 g. 2-octyl acetate, 14.5% 2-octyl H malonate, and 15.9% corresponding neutral ester, b2 169-70°, nD20 1.4367. Dodecyl alc. (35 g.) gave a small amount of dodecyl acetate, b15 149-52°, 16.5% didodecyl malonate, m. 33-4°, and 23% dodecyl H malonate, m. 42-3° (from iso-Am2O); 20 g. PhOH gave a little PhOAc, 13.2% di-Ph malonate, m. 49.5-51.0°, and 17.3% Ph H malonate, m. 65-6° (from iso-Am2O), while 10 g. PhNH2 gave 71% malonanilide, m. 223-4.5° (from MeOH); similar addition of 15 g. PhNH2 in 25 ml. Et2O gave 12 g. of the anilide while the Et2O mother liquor yielded about 3 g. AcNHPh and the alkaline extract gave 4.5 g. malonanilic acid, m. 131-2° (from AcOH), which on heating to the m.p. gave AcNHPh. Addition of 2 drops H2SO4 to 5 g. II and 20 ml. Ac2O, letting stand 24 hrs., and evaporation in vacuo at 50° gave the mixed anhydride of acetic acid and II, b7 70-1°, b5 64-5°, nD20 1.4106, which (3 g.) treated with 5 ml. MeOH gave I, while 3 g. PhNH2 gave 0.4 g. AcNHPh and 1 g. II; treatment of the mixed anhydride with p-O2NC6H4CH2Br in hot aqueous alc. NaOH for 1 hr. gave p-nitrobenzyl acetate and malonate, m. 77-9° and 82.5-84.0°, resp. Allowing 4 g. HO2CCH2CO2Bu and 16 g. Ac2O to stand 24 hrs. gave 59% mixed anhydride of acetic acid and Bu H malonate, b4 116-18°, which (1 g.) with 2 g. PhNH2 gave AcNHPh. Similarly HO2CCH2CO2Ph gave the corresponding mixed anhydride with Ac2O, m. 55.5-56.0° (from iso-Am20), giving HO2C-CH2CO2Ph and AcNHPh with PhNH2.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.68	303.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.25	-2.25

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:54:21 ON 27 NOV 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

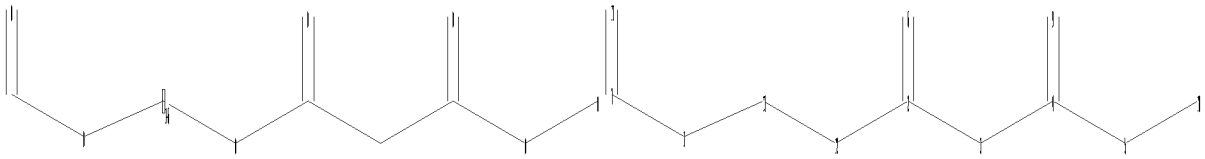
* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 4	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 5	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 6	SEP 11	CA/CAplus enhanced with more pre-1907 records
NEWS 7	SEP 21	CA/CAplus fields enhanced with simultaneous left and right truncation
NEWS 8	SEP 25	CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 9	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11	SEP 28	CEABA-VTB classification code fields reloaded with new classification scheme
NEWS 12	OCT 19	LOGOFF HOLD duration extended to 120 minutes
NEWS 13	OCT 19	E-mail format enhanced
NEWS 14	OCT 23	Option to turn off MARPAT highlighting enhancements available
NEWS 15	OCT 23	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 16	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 17	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 18	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 19	NOV 10	CA/CAplus F-Term thesaurus enhanced
NEWS 20	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 21	NOV 13	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 22	NOV 20	CAS Registry Number crossover limit increased to 300,000 in additional databases
NEWS 23	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS 24	NOV 20	CA/CAplus patent kind codes will be updated

NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

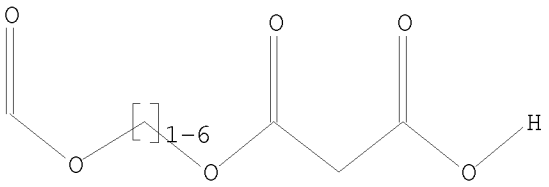
```
* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:14:28 ON 28 NOV 2006

=>
=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                             ENTRY    SESSION
FULL ESTIMATED COST                                           0.21       0.21

FILE 'REGISTRY' ENTERED AT 06:14:44 ON 28 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   27 NOV 2006  HIGHEST RN 914071-04-8
DICTIONARY FILE UPDATES:  27 NOV 2006  HIGHEST RN 914071-04-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10531382\10531382 carbonyloxyalkyl esters.str
```



```
chain nodes :
1  2  3  4  5  6  7  9  10  11  12  13
chain bonds :
1-7  1-13  2-6  2-3  2-12  3-4  4-5  4-9  5-10  7-11  12-13
exact/norm bonds :
1-7  1-13  2-6  2-12  7-11  12-13
exact bonds :
2-3  3-4  5-10
normalized bonds :
4-5  4-9


Hydrogen count :
3:>= minimum 2  5:>= minimum 1
Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  9:CLASS  10:CLASS
11:CLASS  12:CLASS  13:CLASS
```

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 06:18:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1540 TO ITERATE

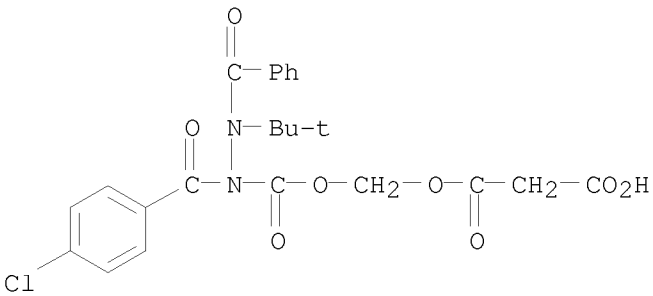
100.0% PROCESSED 1540 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 28446 TO 33154
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> d scan

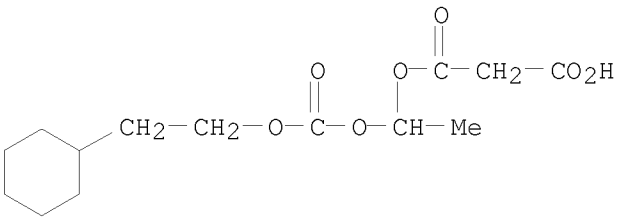
L2 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[[2-benzoyl-1-(4-chlorobenzoyl)-2-(1,1-dimethylethyl)hydrazino]carbonyl]oxy]methyl] ester (9CI)
MF C23 H23 Cl N2 O8
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[1-[[(2-cyclohexylethoxy)carbonyl]oxy]ethyl] ester (9CI)
MF C14 H22 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 3.96 4.17

FILE 'CAPLUS' ENTERED AT 06:20:14 ON 28 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 28 Nov 2006 VOL 145 ISS 23
FILE LAST UPDATED: 27 Nov 2006 (20061127/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> l2
L3 2 L2

=> d l3 1-2 ti fbib abs

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for preparation of malonic acid monoesters
AN 2004:354912 CAPLUS
DN 140:374903

TI Process for preparation of malonic acid monoesters

IN Sawabe, Takehiko; Aihara, Kazuhiro; Atsumi, Kunio; Ajito, Keiichi

PA Meiji Seika Kaisha, Ltd., Japan

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004035540	A1	20040429	WO 2003-JP13319	20031017
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				JP 2002-304630	A 20021018
				JP 2003-50293	A 20030227
	AU 2003301426	A1	20040504	AU 2003-301426	20031017
				JP 2002-304630	A 20021018
				JP 2003-50293	A 20030227
				WO 2003-JP13319	W 20031017
	EP 1561748	A1	20050810	EP 2003-756680	20031017
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
				JP 2002-304630	A 20021018
				JP 2003-50293	A 20030227
				WO 2003-JP13319	W 20031017
	US 2005272950	A1	20051208	US 2005-531382	20050415
				JP 2002-304630	A 20021018
				JP 2003-50293	A 20030227
				WO 2003-JP13319	W 20031017

PATENT FAMILY INFORMATION:

FAN 2004:354911

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004035539	A1	20040429	WO 2003-JP13318	20031017
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				JP 2002-304630	A 20021018
	AU 2003301425	A1	20040504	AU 2003-301425	20031017
				JP 2002-304630	A 20021018
				WO 2003-JP13318	W 20031017

OS MARPAT 140:374903

AB This invention pertains to a method for producing malonic acid monoesters with general formula of HO2CCH2CO2R [where R = a group which is easily hydrolyzed in vivo] or salts, which comprises reacting malonic acid with a halide in the presence of a base. For example, acetoxymethyl bromide was reacted with malonic acid in THF in the presence of N,N-

diisopropylethylamine to give malonic acid mono-acetoxymethyl ester. This invention provides a method to make malonic acid monoesters with low cost.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of derivatives of known pesticides, with enhanced properties
AN 2001:581649 CAPLUS
DN 135:163628
TI Preparation of derivatives of known pesticides, with enhanced properties
IN Mulvihill, Mark Joseph; Shaber, Steven Howard; Kelly, Martha Jean
PA Rohm and Haas Company, USA
SO PCT Int. Appl., 1646 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 4

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001056358	A2	20010809	WO 2001-US651	20010126
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
			US 2000-178878P	P 20000128
			US 2000-493865	A 20000128
US 6376548	B1	20020423	US 2000-493865	20000128
AU 2001030875	A5	20010814	AU 2001-30875	20010126
			US 2000-178878P	P 20000128
			US 2000-493865	A 20000128
			WO 2001-US651	W 20010126
WO 2002072559	A1	20020919	WO 2002-US7423	20020312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			US 2001-804704	A 20010313

PATENT FAMILY INFORMATION:
FAN 2001:564774

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001054481	A2	20010802	WO 2001-US653	20010126
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

```
                                                US 2000-178878P     P  20000128
                                                US 2000-493865      A  20000128
     US 6376548            B1    20020423     US 2000-493865         20000128
     CA 2397831            AA    20010802     CA 2001-2397831        20010126
                                                US 2000-178878P     P  20000128
                                                US 2000-493865      A  20000128
                                                WO 2001-US653       W  20010126
     AU 2001032753         A5    20010807     AU 2001-32753          20010126
                                                US 2000-178878P     P  20000128
                                                US 2000-493865      A  20000128
                                                WO 2001-US653       W  20010126
     EP 1272463            A1    20030108     EP 2001-904803         20010126
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                                US 2000-178878P     P  20000128
                                                US 2000-493865      A  20000128
                                                WO 2001-US653       W  20010126
     JP 2004501067         T2    20040115     JP 2001-555473         20010126
                                                US 2000-178878P     P  20000128
                                                US 2000-493865      A  20000128
                                                WO 2001-US653       W  20010126
     WO 2002072559         A1    20020919     WO 2002-US7423         20020312
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                                US 2001-804704      A  20010313
     US 2004254182         A1    20041216     US 2002-182076         20021217
                                                US 2000-178878P     P  20000128
                                                US 2000-493865      A2 20000128
                                                WO 2001-US653       W  20010126
FAN  2001:564979
     PATENT NO.            KIND  DATE         APPLICATION NO.        DATE
     ----------            ----  --------     --------------------   --------
PI   WO 2001055082         A2    20010802     WO 2001-US652          20010126
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                                US 2000-178878P     P  20000128
                                                US 2000-493865      A  20000128
     US 6376548            B1    20020423     US 2000-493865         20000128
     US 2001039343         A1    20011108     US 2001-804704         20010313
                                                US 2000-178878P     P  20000128
                                                US 2000-493865      A2 20000128
                                                WO 2001-US652       A1 20010126
     WO 2002072559         A1    20020919     WO 2002-US7423         20020312
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
```

```
            PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
            UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
            TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
            CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                            US 2001-804704      A  20010313
FAN  2004:1080693
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   US 2004254182        A1    20041216    US 2002-182076          20021217
                                            US 2000-178878P     P   20000128
                                            US 2000-493865      A2  20000128
                                            WO 2001-US653       W   20010126
     US 6376548           B1    20020423    US 2000-493865          20000128
     WO 2001054481        A2    20010802    WO 2001-US653           20010126
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                            US 2000-178878P     P   20000128
                                            US 2000-493865      A   20000128
     WO 2002072559        A1    20020919    WO 2002-US7423          20020312
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                            US 2001-804704      A  20010313
OS   MARPAT 135:163628
AB   A very large number of derivs. of known pesticides were prepared  The moieties
     substituted to the known pesticides enhance or favorably modify the
     activity and properties of the parent pesticide.


=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      20.86      25.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -1.50      -1.50

FILE 'REGISTRY' ENTERED AT 06:22:26 ON 28 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.
```

STRUCTURE FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8
DICTIONARY FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d his

     (FILE 'HOME' ENTERED AT 06:14:28 ON 28 NOV 2006)

     FILE 'REGISTRY' ENTERED AT 06:14:44 ON 28 NOV 2006
L1   STRUCTURE UPLOADED
L2   2 SEARCH L1 SSS SAM

     FILE 'CAPLUS' ENTERED AT 06:20:14 ON 28 NOV 2006
L3   2 L2

     FILE 'REGISTRY' ENTERED AT 06:22:26 ON 28 NOV 2006

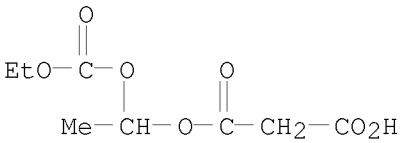
=> search l1 sss full
FULL SEARCH INITIATED 06:22:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   30214 TO ITERATE

100.0% PROCESSED   30214 ITERATIONS   37 ANSWERS
SEARCH TIME: 00.00.03

L4   37 SEA SSS FUL L1

=> d scan

L4   37 ANSWERS   REGISTRY COPYRIGHT 2006 ACS on STN
IN   Propanedioic acid, mono[1-[(ethoxycarbonyl)oxy]ethyl] ester (9CI)
MF   C8 H12 O7

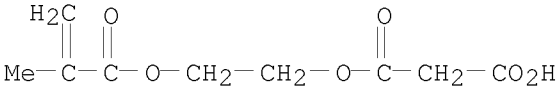


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):37

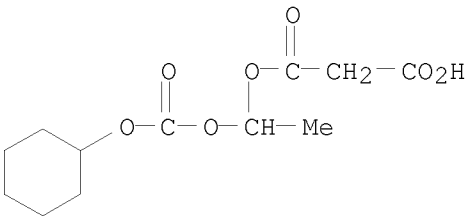
L4   37 ANSWERS   REGISTRY COPYRIGHT 2006 ACS on STN
IN   Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester
     (9CI)

MF C9 H12 O6
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

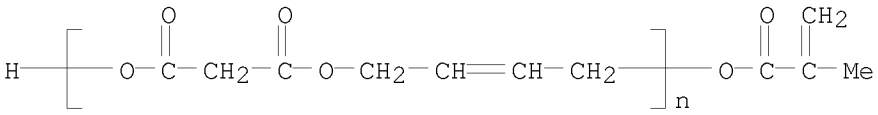
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[1-[[(cyclohexyloxy)carbonyl]oxy]ethyl] ester (9CI)
MF C12 H18 O7



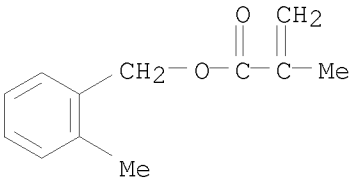
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Propenoic acid, 2-methyl-, (2-methylphenyl)methyl ester, polymer with α-hydro-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy(1,3-dioxo-1,3-propanediyl)oxy-2-butene-1,4-diyl] (9CI)
MF (C12 H14 O2 . (C7 H8 O4)n C4 H6 O2)x
CI PMS

CM 1

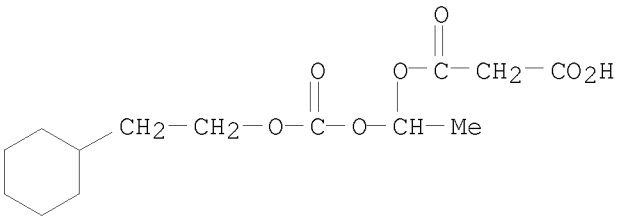


CM 2



L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

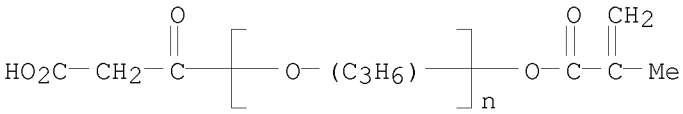
IN Propanedioic acid, mono[1-[[(2-cyclohexylethoxy)carbonyl]oxy]ethyl] ester (9CI)
MF C14 H22 O7



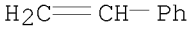
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Poly[oxy(methyl-1,2-ethanediyl)], α-(carboxyacetyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]-, polymer with ethenylbenzene (9CI)
MF (C8 H8 . (C3 H6 O)n C7 H8 O5)x
CI PMS

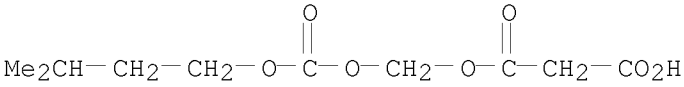
CM 1



CM 2

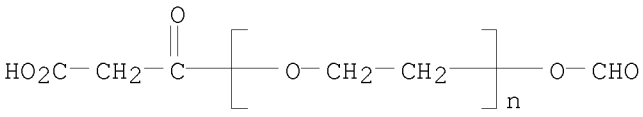


L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[(3-methylbutoxy)carbonyl]oxy]methyl] ester (9CI)
MF C10 H16 O7



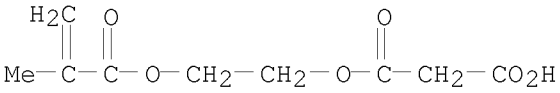
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(carboxyacetyl)-ω-(formyloxy)-(9CI)
MF (C2 H4 O)n C4 H4 O5
CI PMS

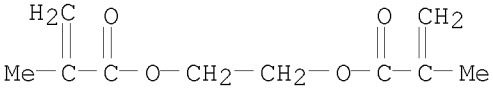


L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate) and methyl 2-methyl-2-propenoate (9CI)
MF (C10 H14 O4 . C9 H12 O6 . C5 H8 O2)x
CI PMS

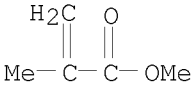
CM 1



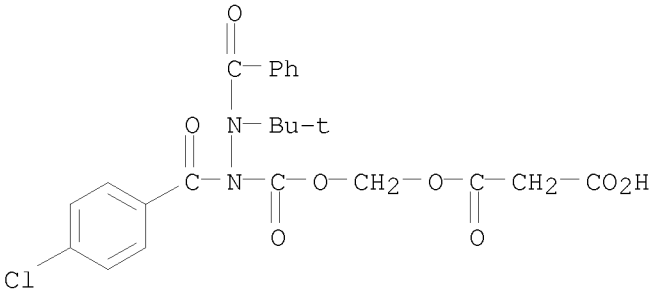
CM 2



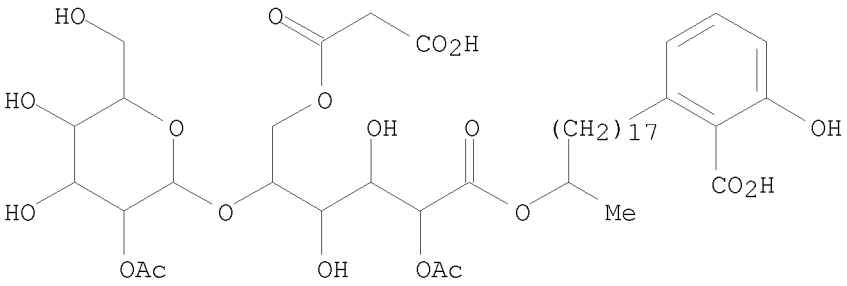
CM 3



L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[[2-benzoyl-1-(4-chlorobenzoyl)-2-(1,1-dimethylethyl)hydrazino]carbonyl]oxy]methyl] ester, sodium salt (9CI)
MF C23 H23 Cl N2 O8 . Na

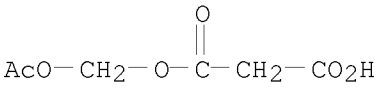


L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hexonic acid, 5-O-(2-O-acetylhexopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyloctadecyl ester, 2-acetate 6-(hydrogen propanedioate) (9CI)
MF C45 H70 O20



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

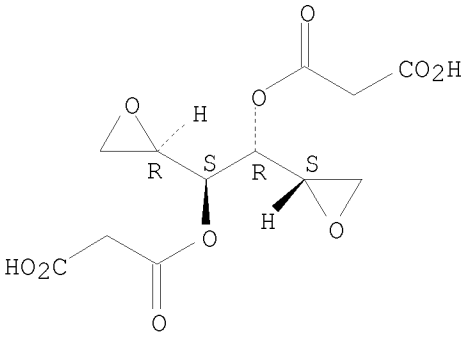
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[(acetyloxy)methyl] ester (9CI)
MF C6 H8 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

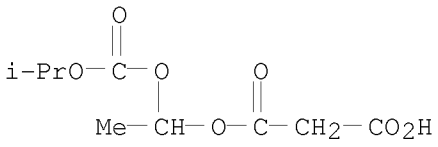
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Galactitol, 1,2:5,6-dianhydro-, bis(hydrogen propanedioate) (9CI)
MF C12 H14 O10

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

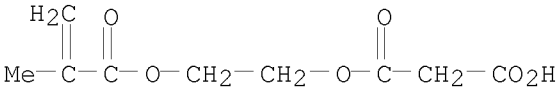
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[1-[[(1-methylethoxy)carbonyl]oxy]ethyl] ester (9CI)
MF C9 H14 O7



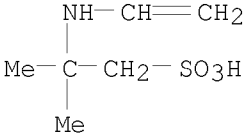
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-(ethenylamino)-2-methyl-1-propanesulfonic acid and methyl 2-propenoate (9CI)
MF (C9 H12 O6 . C6 H13 N O3 S . C4 H6 O2)x
CI PMS

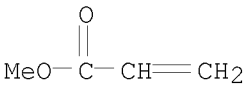
CM 1



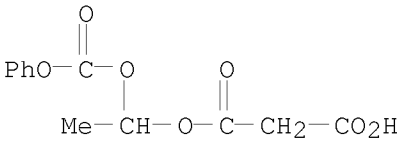
CM 2



CM 3



L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[1-[(phenoxycarbonyl)oxy]ethyl] ester (9CI)
MF C12 H12 O7

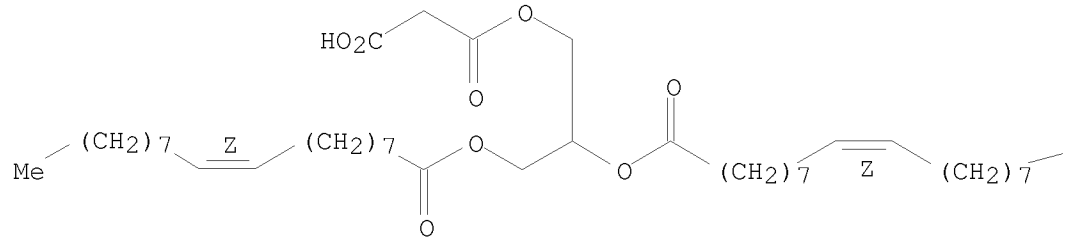


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2,3-bis[[(9Z)-1-oxo-9-octadecenyl]oxy]propyl] ester (9CI)
MF C42 H74 O8

Double bond geometry as shown.

PAGE 1-A

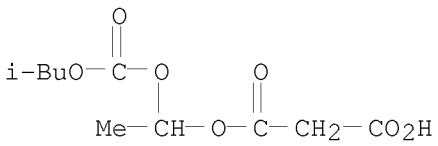


PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

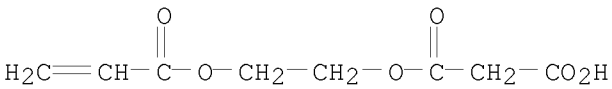
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[1-[[(2-methylpropoxy)carbonyl]oxy]ethyl] ester (9CI)

MF C10 H16 O7



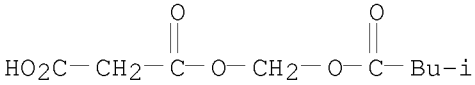
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester (9CI)
MF C8 H10 O6
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

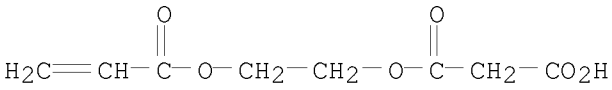
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[(3-methyl-1-oxobutoxy)methyl] ester (9CI)
MF C9 H14 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

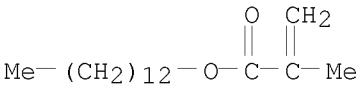
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Propenoic acid, 2-methyl-, tridecyl ester, polymer with dodecyl 2-propenoate and 2-hydroxyethyl 2-propenoate, 2-[(1-oxo-2-propenyl)oxy]ethyl propanedioate (9CI)
MF (C17 H32 O2 . C15 H28 O2 . C5 H8 O3)x . x C8 H10 O6

CM 1

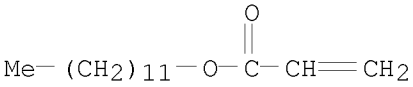


CM 2

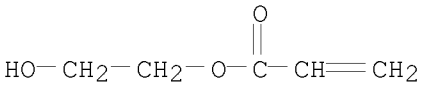
CM 3



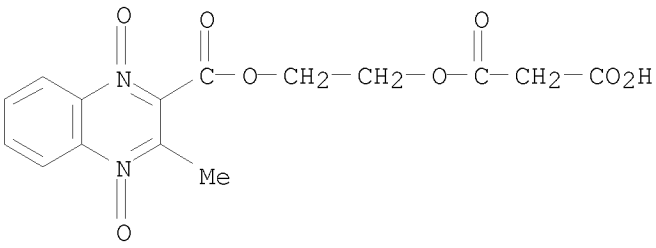
CM 4



CM 5



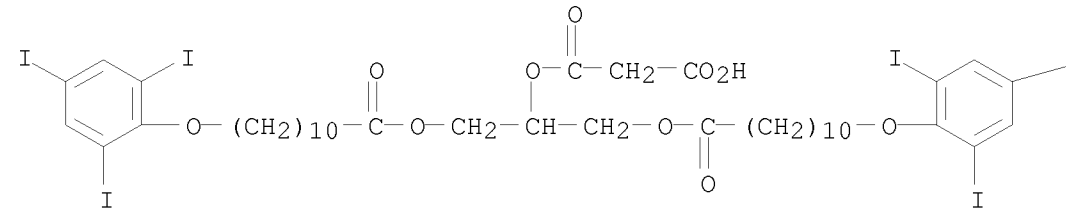
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[[(3-methyl-1,4-dioxido-2-quinoxalinyl)carbonyl]oxy]ethyl] ester (9CI)
MF C15 H14 N2 O8
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[[1-oxo-11-(2,4,6-triiodophenoxy)undecyl]oxy]-1-[[[1-oxo-11-(2,4,6-triiodophenoxy)undecyl]oxy]methyl]ethyl] ester (9CI)
MF C40 H52 I6 O10

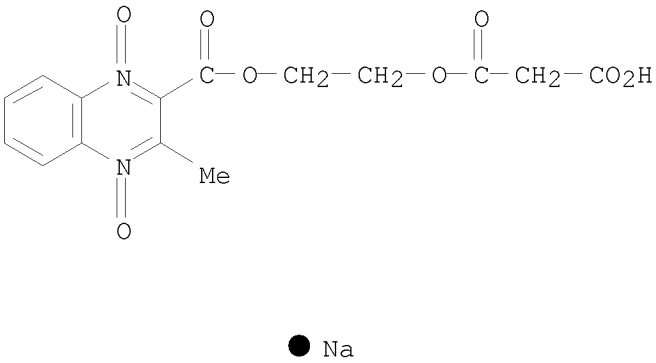
PAGE 1-A



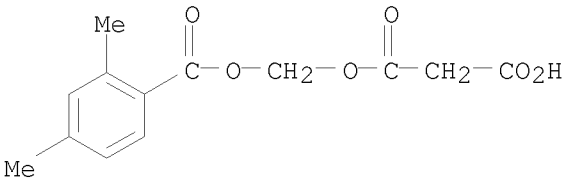
PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[2-[[(3-methyl-1,4-dioxido-2-quinoxalinyl)carbonyl]oxy]ethyl] ester, sodium salt (9CI)
MF C15 H14 N2 O8 . Na



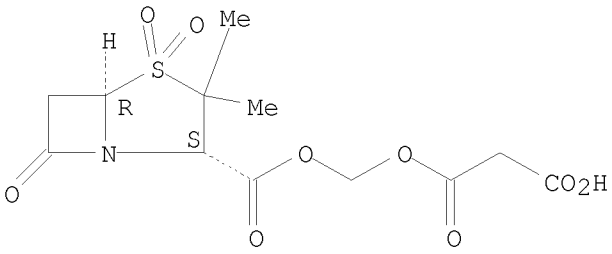
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[(2,4-dimethylbenzoyl)oxy]methyl] ester (9CI)
MF C13 H14 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

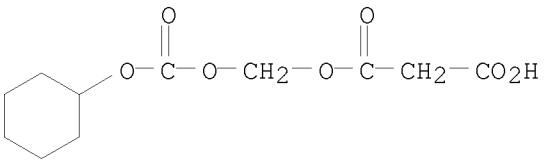
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-yl)carbonyl]oxy]methyl] ester, (2S-cis)- (9CI)
MF C12 H15 N O9 S
CI COM

Absolute stereochemistry.



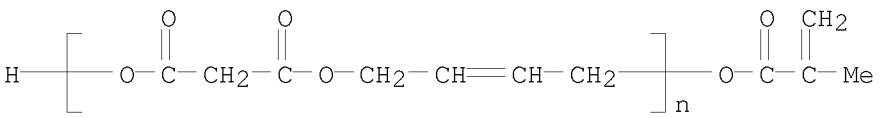
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[(cyclohexyloxy)carbonyl]oxy]methyl] ester (9CI)
MF C11 H16 O7

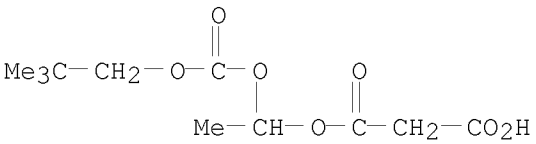


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Poly[oxy(1,3-dioxo-1,3-propanediyl)oxy-2-butene-1,4-diyl], α-hydro-ω-[(2-methyl-1-oxo-2-propenyl)oxy]- (9CI)
MF (C7 H8 O4)n C4 H6 O2
CI PMS, COM

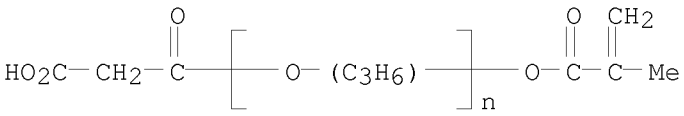


L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[1-[[(2,2-dimethylpropoxy)carbonyl]oxy]ethyl] ester (9CI)
MF C11 H18 O7

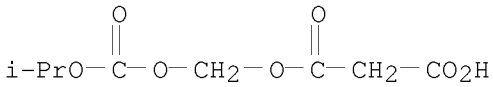


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Poly[oxy(methyl-1,2-ethanediyl)], α-(carboxyacetyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]- (9CI)
MF (C3 H6 O)n C7 H8 O5
CI IDS, PMS, COM



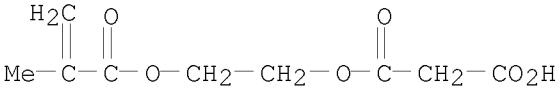
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[(1-methylethoxy)carbonyl]oxy]methyl] ester (9CI)
MF C8 H12 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

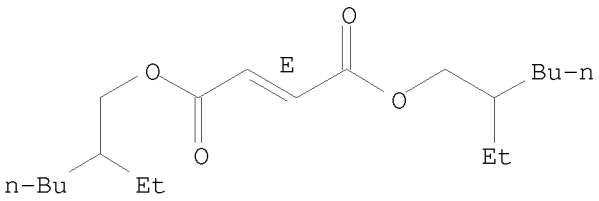
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Butenedioic acid (2E)-, bis(2-ethylhexyl) ester, polymer with ethenylbenzene, 2,5-furandione and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl hydrogen propanedioate (9CI)
MF (C20 H36 O4 . C9 H12 O6 . C8 H8 . C4 H2 O3)x
CI PMS

CM 1

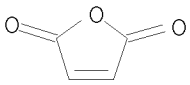


CM 2

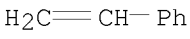
Double bond geometry as shown.



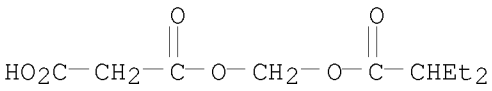
CM 3



CM 4

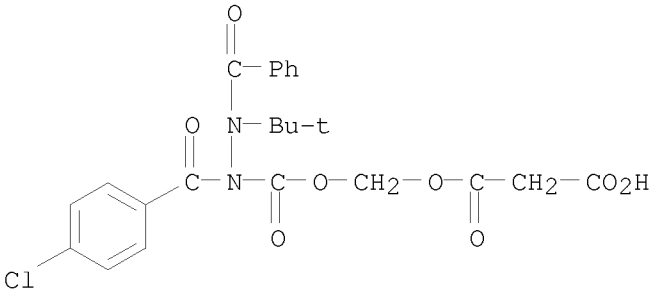


L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[(2-ethyl-1-oxobutoxy)methyl] ester (9CI)
MF C10 H16 O6



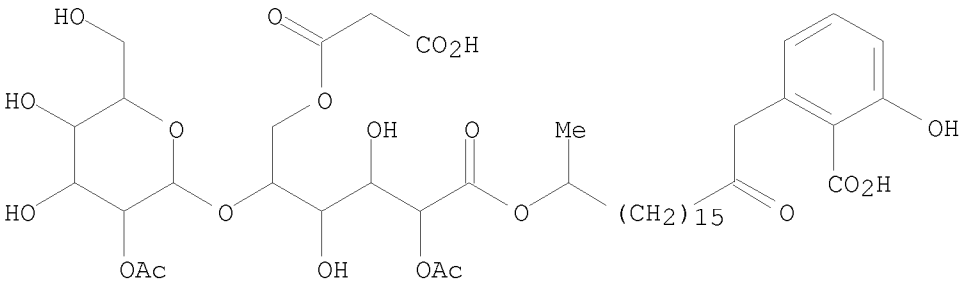
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[[2-benzoyl-1-(4-chlorobenzoyl)-2-(1,1-dimethylethyl)hydrazino]carbonyl]oxy]methyl] ester (9CI)
MF C23 H23 Cl N2 O8
CI COM



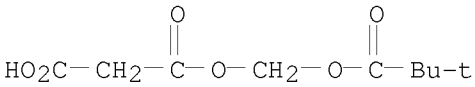
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hexonic acid, 5-O-(2-O-acetylhexopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyl-17-oxooctadecyl ester, 2-acetate 6-(hydrogen propanedioate) (9CI)
MF C45 H68 O21



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

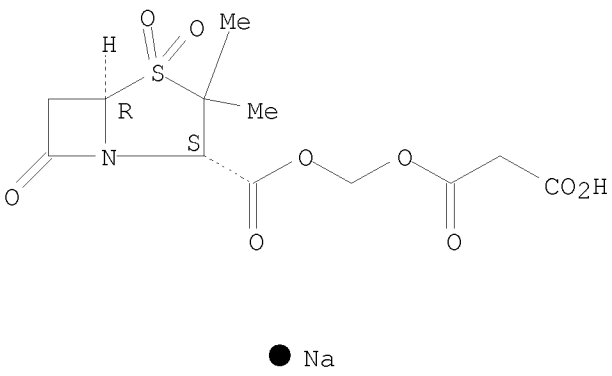
L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[(2,2-dimethyl-1-oxopropoxy)methyl] ester (9CI)
MF C9 H14 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-yl)carbonyl]oxy]methyl] ester, sodium salt, (2S-cis)- (9CI)
MF C12 H15 N O9 S . Na

Absolute stereochemistry.



ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	167.82	192.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.50

FILE 'CAPLUS' ENTERED AT 06:24:05 ON 28 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 28 Nov 2006 VOL 145 ISS 23
FILE LAST UPDATED: 27 Nov 2006 (20061127/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> l4
L5 22 L4

=> save temp l5 malontes/a
ANSWER SET L5 HAS BEEN SAVED AS 'MALONTES/A'

=> d l5 10-22 ti

L5 ANSWER 10 OF 22 CAPLUS

TI Resist developer containing basic organic compound and formic acid ester and rapid developing method using it

L5 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Resin composition for electrophotographic toner

L5 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Ultraviolet ray-curable adhesive compositions for metal hubs

L5 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Reactive emulsifiers for emulsion polymerization of vinyl compounds

L5 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Lipid Derivatives of Sarcolysine, Methotrexate, and Rubomycin

L5 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Electrophotographic light-sensitive material

L5 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI High-contrast silver halide photographic material

L5 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Orally effective acid prodrugs of the β-lactamase inhibitor sulbactam

L5 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI RP-HPLC assay for 1,2-5,6-dianhydro-3,4-disuccinylgalactitol and its metabolites in blood plasma and liver

L5 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Bis-esters of dicarboxylic acids with amoxicillin and certain hydroxymethylpenicillanate 1,1-dioxides

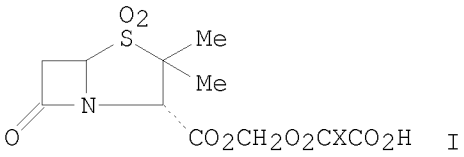
L5 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI 1,1-Alkanediol dicarboxylate-linked antibacterial agents

L5 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI 1,1-Alkanediol dicarboxylate linked antibacterial agents

L5 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Substituted alkyl esters of quinoxaline-di-N-oxide-2-carboxylic acid

=> d l5 17-22 ti fbib abs it

L5 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Orally effective acid prodrugs of the β-lactamase inhibitor sulbactam
AN 1990:35500 CAPLUS
DN 112:35500
TI Orally effective acid prodrugs of the β-lactamase inhibitor sulbactam
AU English, Arthur R.; Girard, Dennis; Jasys, V. John; Martingano, Robert J.; Kellogg, Michael S.
CS Pfizer Cent. Res., Groton, CT, 06340, USA
SO Journal of Medicinal Chemistry (1990), 33(1), 344-7
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
OS CASREACT 112:35500
GI



I

AB Double-ester prodrugs I [X = CH2, CMe2, (CH2)3, CH2)4] of sulbactam, a β-lactamase inhibitor with limited oral bioavailability were prepared and were effective oral-delivery vehicles in rats. I have several potential advantages over their nonionizable lipophilic counterparts, including water solubility, crystallinity, choice of salts for dosage forms, and formation of innocuous byproducts on hydrolysis.

IT Drug bioavailability
(of sulbactam from carboxyalkanoyloxymethyl esters)

IT 68373-14-8, Sulbactam
RL: PROC (Process)
(bioavailability of, from carboxyalkanoyloxymethyl esters)

IT 76247-39-7, Iodomethyl penicillanate 1,1-dioxide
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification by, of monobenzyl alkane dicarboxylates)

IT 18997-19-8, Chloromethyl pivalate
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification by, of sulbactam)

IT 69388-84-7, Sulbactam sodium salt
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of)

IT 108-55-4, Glutaric anhydride 124-04-9, Adipic acid, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(partial esterification of)

IT 15014-25-2, Dibenzyl malonate
RL: RCT (Reactant); RACT (Reactant or reagent)
(partial hydrolysis, or methylation of)

IT 87343-33-7P 87353-01-3P 87353-21-7P 123963-81-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and bioavailability from, of sulbactam)

IT 40542-90-3P, Monobenzyl adipate 54322-10-0P 86507-74-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to tetrabutylammonium salt)

IT 87343-26-8P 87343-27-9P 87343-28-0P 87343-31-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and debenzylation of)

IT 57772-82-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and partial ester hydrolysis of)

IT 87353-15-9P 87353-23-9P 123963-80-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodomethyl penicillanate dioxide)

IT 40204-26-0P, Monobenzyl malonate 69388-79-0P 87353-37-5P 87353-39-7P 87353-40-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 41087-88-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with iodomethylpenicillinate dioxide)

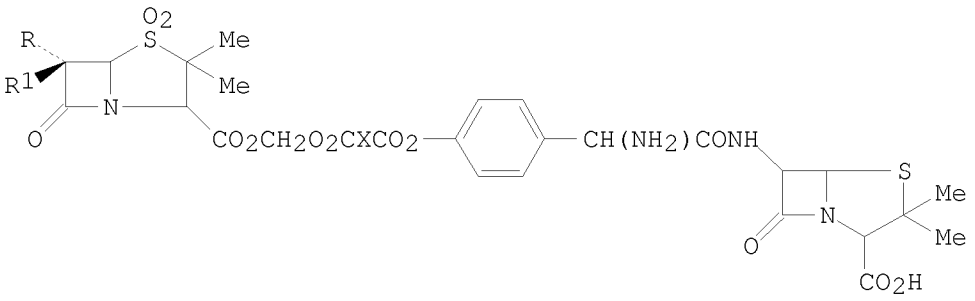
L5 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI RP-HPLC assay for 1,2-5,6-dianhydro-3,4-disuccinylgalactitol and its metabolites in blood plasma and liver
AN 1988:179457 CAPLUS
DN 108:179457
TI RP-HPLC assay for 1,2-5,6-dianhydro-3,4-disuccinylgalactitol and its metabolites in blood plasma and liver
AU Szokan, G.; Elekes, I.; Taborhegyi, E.; Csanadi, G.; Bencze, J.
CS Inst. Org. Chem., Eotvos Univ., Budapest, H-1088, Hung.
SO Chromatographia (1987), 24, 839-41
CODEN: CHRGB7; ISSN: 0009-5893
DT Journal
LA English
AB A method involving precolumn derivatization and HPLC assay is described for measuring submicrogram quantities of 1,2-5,6-dianhydro-3,4-disuccinylgalactitol [1,2-5,6-dianhydro-3,4-bis(carboxypropionyl)galactitol], an effective cytostatic drug, and its metabolites in blood plasma and liver homogenate. The substance and its metabolites were derivatized with Na pentamethylene-dithiocarbamate to form different bis(dithiocarbamoyl) esters, which can be detected by UV absorbance at 254 and 280 nm. The directly derivatized products were then extracted into $CHCl_3$, and after sample preparation resolved by reversed-phase HPLC (RP-HPLC) on SAS-Hypersil column.
IT Blood analysis
Liver, composition
(dianhydrodisuccinylgalactitol and its derivs. determination in, by reversed-phase HPLC)
IT Chromatography, column and liquid
(high-performance, reversed-phase, of dianhydrodisuccinylgalactitol and its derivs., in blood plasma and liver)
IT 23261-20-3 57230-48-5 66913-57-3 114066-54-5 114066-55-6 114179-42-9
RL: ANT (Analyte); ANST (Analytical study)
(determination of, by reversed-phase HPLC as bis(dithiocarbamoyl) ester)
IT 66913-57-3D, metabolites
RL: ANT (Analyte); ANST (Analytical study)
(determination of, in blood plasma and liver by reversed-phase HPLC)

L5 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Bis-esters of dicarboxylic acids with amoxicillin and certain hydroxymethylpenicillanate 1,1-dioxides
AN 1984:591548 CAPLUS
DN 101:191548
TI Bis-esters of dicarboxylic acids with amoxicillin and certain hydroxymethylpenicillanate 1,1-dioxides
IN Jasys, Vytautas J.
PA Pfizer Inc., USA
SO U.S., 12 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI US 4462934	A	19840731	US 1983-481108		19830331
DK 8401140	A	19841001	DK 1984-1140		19840228
			US 1983-481108	A	19830331
EP 121383	A1	19841010	EP 1984-301973		19840323
EP 121383	B1	19860507			
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
			US 1983-481108	A	19830331
AT 19633	E	19860515	AT 1984-301973		19840323
			US 1983-481108	A	19830331

			EP 1984-301973	A	19840323
CA 1199909	A1	19860128	CA 1984-450835		19840329
			US 1983-481108	A	19830331
IL 71391	A1	19871030	IL 1984-71391		19840329
			US 1983-481108	A	19830331
PL 144812	B1	19880730	PL 1984-246933		19840329
			US 1983-481108	A	19830331
FI 8401287	A	19841001	FI 1984-1287		19840330
			US 1983-481108	A	19830331
AU 8426265	A1	19841004	AU 1984-26265		19840330
AU 545941	B2	19850808			
			US 1983-481108	A	19830331
HU 33486	O	19841128	HU 1984-1303		19840330
HU 191650	B	19870330			
			US 1983-481108	A	19830331
ES 531194	A1	19850801	ES 1984-531194		19840330
			US 1983-481108	A	19830331
JP 59216891	A2	19841206	JP 1984-65046		19840331
JP 01007077	B4	19890207			
			US 1983-481108	A	19830331

GI



I

AB The esters I (R = H, CH2NH2, R1 = H; R = H, R1 = CH2OH; X = 1,4-cyclohexanediyl, C1-6 alkylene), useful as bactericides (no data), were prepared Thus, I [R = R1 = H, X = (CH2)4] was prepared by treating 1,1-dioxopenicillanoyloxymethyl adipate (II) with protected amoxicillin Bu4N salt and deblocking. II was obtained by treating Na penicillanate 1,1-dioxide with ClCH2O2C(CH2)4CO2CH2Ph.

IT Antibiotics
Bactericides, Disinfectants, and Antiseptics
Bactericides, Disinfectants, and Antiseptics
(dioxopenicillnoyloxymethylamoxicillin cyclohexanedicarboxylate alkanedioates)

IT 62787-85-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(debenzylation of)

IT 13149-00-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of, with benzyl alc.)

IT 15014-25-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(methylation of)

IT 57772-82-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(preparation and debenzylation of)
IT 92665-30-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deblocking of)
IT 87353-32-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and epimerization of)
IT 84458-33-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification of)
IT 87353-26-2P 87353-33-1P 87366-97-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)
IT 87343-25-7P 87343-26-8P 87343-27-9P 87343-28-0P 87343-31-5P 87343-38-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenolysis of)
IT 76247-40-0P 87375-29-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and iodination of)
IT 87353-27-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
IT 76909-19-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with acetoacetate)
IT 87343-33-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with amoxicillin derivative)
IT 87343-37-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with bromochloromethane)
IT 87353-35-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with chloroformate)
IT 87375-22-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with chloroiodomethane)
IT 87343-34-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with dioxopenicillanate)
IT 84756-67-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with dioxopenicillanoyloxymethyl adipate)
IT 87343-24-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with iodomethylpenicillanate dioxide)
IT 87343-30-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with penicillanate dioxide)
IT 87375-17-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with tetrabutylammonium hydroxide)
IT 86507-74-6P 87343-21-3P 87343-22-4P 87343-32-6P 87343-39-3P
87353-01-3P 87353-21-7P 87353-37-5P 87353-38-6P 87353-39-7P
87353-40-0P 87375-30-2P 87392-98-1P 92665-31-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT 593-71-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aminomethylpenicillanate dioxide derivative)
IT 105-45-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with amoxicillin tetrabutylammonium salt)
IT 69388-84-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzyl chloromethyl adipate)
IT 35564-99-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzyloxycarbonylaminomethylacetate)
IT 87353-23-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with bromochloromethane)
IT 67799-92-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dibromopenicillanate)
IT 74-97-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with tetrabutylammonium benzyl cyclohexanedicarboxylate)
IT 76247-39-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with tetrabutylammonium benzyl succinate)
IT 103-40-2 26787-78-0 68373-14-8 87343-35-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with tetrabutylammonium hydroxide)

L5 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI 1,1-Alkanediol dicarboxylate-linked antibacterial agents
AN 1984:591536 CAPLUS
DN 101:191536
TI 1,1-Alkanediol dicarboxylate-linked antibacterial agents
IN Jasys, Vytautas J.; Kellogg, Michael S.
PA Pfizer Inc., USA
SO U.S., 39 pp. Cont.-in-part of U.S. Ser. No. 334,022, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4457924	A	19840703	US 1982-429915	19820930
			US 1981-334022 A2	19811222
EP 83484	A1	19830713	EP 1982-306683	19821214
EP 83484	B1	19860219		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
			US 1981-334022 A	19811222

			US 1982-429915	A	19820930
AT 18051	E	19860315	AT 1982-306683		19821214
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
			EP 1982-306683	A	19821214
RO 84911	P	19840817	RO 1982-109396		19821220
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
RO 87709	B3	19851031	RO 1982-113244		19821220
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
DK 8205654	A	19830623	DK 1982-5654		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
FI 8204409	A	19830623	FI 1982-4409		19821221
FI 80039	B	19891229			
FI 80039	C	19900410			
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
NO 8204305	A	19830623	NO 1982-4305		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
AU 8291721	A1	19830630	AU 1982-91721		19821221
AU 537214	B2	19840614			
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
ZA 8209372	A	19830928	ZA 1982-9372		19821221
			US 1981-334022	A	19811222
HU 27683	O	19831028	HU 1982-4105		19821221
HU 187737	B	19860228			
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
ES 518425	A1	19840201	ES 1982-518425		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
DD 207379	A5	19840229	DD 1982-246325		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
IL 67530	A1	19860228	IL 1982-67530		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
CA 1213582	A1	19861104	CA 1982-418192		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
PL 140291	B1	19870430	PL 1982-248637		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
PL 141306	B1	19870731	PL 1982-239651		19821221
			US 1981-334022	A	19811222
SU 1405704	A3	19880623	SU 1982-3529507		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
PL 145927	B1	19881130	PL 1982-256903		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
JP 58116486	A2	19830711	JP 1982-225773		19821222
JP 02051436	B4	19901107			
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
CS 236867	B2	19850515	CS 1982-9559		19821222
			US 1982-429915	A	19820930
CS 236895	B2	19850515	CS 1983-7237		19821222

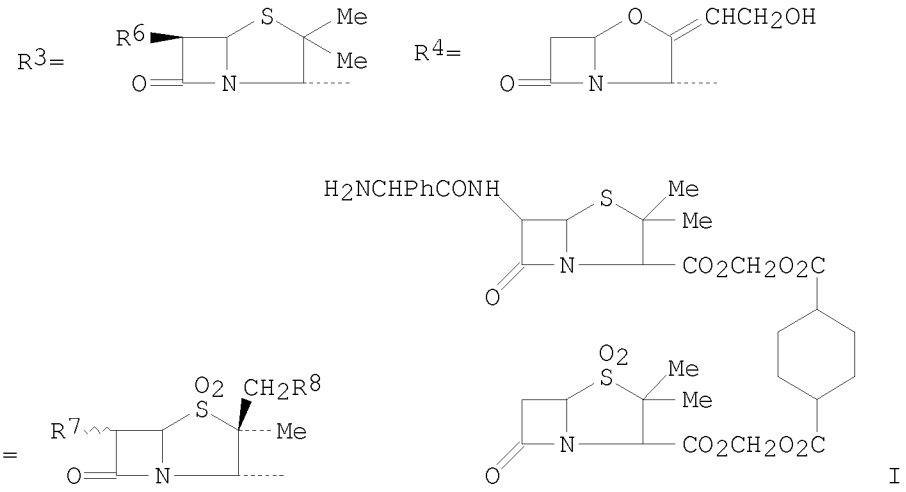
				US 1982-429915	A	19820930
	ES 524894	A1	19850201	ES 1983-524894		19830811
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	ES 524895	A1	19850201	ES 1983-524895		19830811
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	CA 1236828	A2	19880517	CA 1986-513548		19860710
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
				CA 1982-418192	A3	19821221
	FI 8800653	A	19880212	FI 1988-653		19880212
	FI 81102	B	19900531			
	FI 81102	C	19900910			
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
				FI 1982-4409	A	19821221
	FI 8800654	A	19880212	FI 1988-654		19880212
	FI 81353	B	19900629			
	FI 81353	C	19901010			
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
				FI 1982-4409	A	19821221
	JP 02270881	A2	19901105	JP 1990-33601		19900214
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	DK 9200690	A	19920526	DK 1992-690		19920526
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	DK 9200691	A	19920526	DK 1992-691		19920526
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930

PATENT FAMILY INFORMATION:

FAN 1984:6194

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 83484	A1	19830713	EP 1982-306683		19821214
	EP 83484	B1	19860219			
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	US 4457924	A	19840703	US 1982-429915		19820930
				US 1981-334022	A2	19811222
	AT 18051	E	19860315	AT 1982-306683		19821214
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
				EP 1982-306683	A	19821214

GI



I

AB RCO2CHR1O2CXO2C(CHR1O2C)nR2 [X = C1-12 alkylene, alkylidene (un)substituted by Ph or CO2H, cycloalkylene, phenylene, naphthalenediyl, furandiyl, thiophendiyl, pyridinediyl, pyrazinediyl; R = R3-R5; R1 = H, alkyl; R2 = R3-R5, H, alkyl, CH2Ph, CHR1Cl, CHR1I, NBu4; R6 = NH2, 2,6-(MeO)2C6H3CONH, PhOCH2CONH, 4-R9C6H4CHR10CONH; R7 = H, CH2OH, CH2NH2, CHMeNH2; R8 = H, Cl, OAc; R9 = H, OH, acyloxy, alkoxycarbonyloxy, (un)substituted BzO; R10 = H, (un)protected NH2, N3] were prepared Thus, I was prepared from Na penicillanate 1,1-dioxide, ampicillin, K benzyl trans-1,4-cyclohexanedicarboxylate, ClCH2I, and ClCH2Br in 10 steps.

IT 87353-35-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(benzyloxycarbonylation of)

IT 26787-78-0 35334-12-4 68373-14-8 76953-81-6 87343-35-9 87343-46-2
RL: PROC (Process)
(conversion of, to tetrabutylammonium salt)

IT 13149-00-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of)

IT 593-71-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of penicillanic acids by)

IT 15014-25-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(methylation of)

IT 79634-06-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(neutralization and oxidation of)

IT 19851-61-7 62787-85-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(partial hydrolysis of)

IT 79634-01-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorination of)

IT 79703-02-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to potassium salt)

IT 87353-42-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to sodium salt)

IT 87353-01-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to tetrabutylammonium salt)
IT 87352-86-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deblocking of)
IT 87353-30-8P 87353-32-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and epimerization of)
IT 79886-08-1P 87375-30-2P 92521-56-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification of)
IT 87375-17-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification of, with methylene chloride)
IT 87352-99-6P 87353-00-2P 87353-26-2P 87366-97-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)
IT 79634-03-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenolysis and oxidation of)
IT 87343-24-6P 87343-25-7P 87343-26-8P 87343-38-2P 87343-43-9P
87343-50-8P 87343-59-7P 87343-62-2P 87352-82-7P 87352-84-9P
87353-24-0P 87353-25-1P 87353-33-1P 92521-52-3P 92521-55-6P
92521-59-0P 92521-62-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenolysis of)
IT 87343-54-2P 87343-56-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis and hydrogenolysis of)
IT 298-14-6P 76247-40-0P 76350-34-0P 76946-48-0P 87352-89-4P
87352-91-8P 87352-93-0P 87353-05-7P 87353-09-1P 87353-11-5P
87353-12-6P 87353-17-1P 87392-99-2P 92521-54-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)
IT 87375-29-9P 92521-57-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and iodination of)
IT 87343-44-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and neutralization of)
IT 79634-02-9P 86287-78-7P 86287-79-8P 87353-27-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
IT 57772-82-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and partial hydrolysis of)
IT 76909-19-8P 92521-60-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(preparation and reaction of, with acetoacetate)

IT 87353-04-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with ampicillin derivative)

IT 87343-32-6P 87343-39-3P 87343-51-9P 87353-37-5P 87353-39-7P 87353-41-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with ampicillin iodomethyl ester)

IT 87343-37-1P 87343-41-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with bromochloromethane)

IT 84256-84-8P 84458-33-3P 87343-34-8P 87343-42-8P 87343-48-4P 87343-49-5P 87343-53-1P 87353-03-5P 87353-07-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with chloroiodomethane)

IT 92521-58-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with dioxopenicillanate)

IT 76909-27-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with dioxopenicillanoyloxomethyl glutarate)

IT 87353-38-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodomethyl azidophenylacetamidopenicillanate)

IT 87353-20-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodomethyl bromopenicillanate)

IT 92521-61-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodomethyl dioxopenicillanate)

IT 87353-08-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodomethyl dioxopenicillanoyloxymethyl dimethylmalonate)

IT 87393-00-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodoxopenicillanoyloxymethyl alkanedicarboxylates)

IT 92521-51-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iso-Bu chloroformate)

IT 76247-39-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with monobenzyl succinate)

IT 87343-61-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with penicillanate derivs.)

IT 76350-40-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with penicillanoyloxymethyl glutarate)

IT 87343-61-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with penicillin derivative)

IT 87353-10-4P 87353-16-0P 92521-53-4P 92521-63-6P 92620-12-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 69-53-4 18520-63-3 75694-28-9 79634-05-2 79886-07-0 84256-87-1
86256-86-2 86507-74-6 87343-21-3 87343-22-4 87343-27-9
87343-28-0 87343-29-1 87343-31-5 87343-33-7 87343-45-1
87343-55-3 87343-57-5 87343-60-0 87343-63-3 87352-83-8
87352-85-0 87352-87-2 87352-88-3 87352-90-7 87352-92-9
87352-94-1 87352-95-2 87352-96-3 87352-97-4 87352-98-5
87353-10-4 87353-13-7 87353-16-0 87353-18-2 87353-21-7
87353-28-4 87353-29-5 87353-31-9 87353-34-2 87353-35-3
87353-36-4 87353-40-0 87392-98-1 87419-73-6 87419-75-8
87503-35-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acetoacetate)

IT 74-97-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with alkanedicarboxylic acids)

IT 105-45-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with ampicillin)

IT 69388-84-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzyl chloromethyl adipate)

IT 132-92-3 132-98-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzyl chloromethyl dimethylmalonate)

IT 67852-88-4 87353-23-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with bromochloromethane)

IT 87353-15-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloroiodomethane)

IT 4027-64-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloromethyl chlorosulfonate)

IT 67799-92-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dibromopenicillanate)

IT 87343-30-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dioxopenicillanate)

IT 35564-99-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with formaldehyde)

IT 40542-90-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with iodomethyl azidophenylacetamidopenicillanate)

IT 84256-87-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with iodomethyl dioxopenicillanoyloxymethyl malonate)

IT 86507-74-6
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with iodomethyl penicillanate derivative)
IT 103-40-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with iodomethylpenicillanate dioxide)
IT 87343-58-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with penicillin B)

L5 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI 1,1-Alkanediol dicarboxylate linked antibacterial agents
AN 1984:6194 CAPLUS
DN 100:6194
TI 1,1-Alkanediol dicarboxylate linked antibacterial agents
IN Jasys, Vytautas John; Kellogg, Michael Stephen
PA Pfizer Inc., USA
SO Eur. Pat. Appl., 124 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 83484	A1	19830713	EP 1982-306683		19821214
	EP 83484	B1	19860219			
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	US 4457924	A	19840703	US 1982-429915		19820930
				US 1981-334022	A2	19811222
	AT 18051	E	19860315	AT 1982-306683		19821214
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
				EP 1982-306683	A	19821214

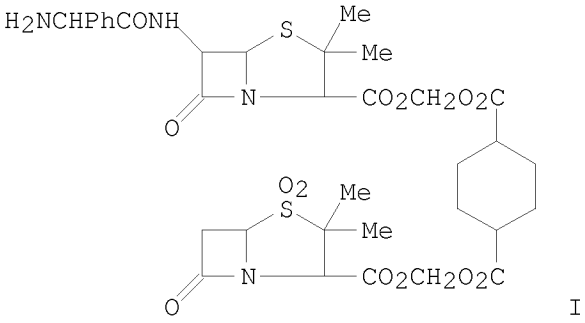
PATENT FAMILY INFORMATION:
FAN 1984:591536

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 4457924	A	19840703	US 1982-429915		19820930
				US 1981-334022	A2	19811222
	EP 83484	A1	19830713	EP 1982-306683		19821214
	EP 83484	B1	19860219			
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	AT 18051	E	19860315	AT 1982-306683		19821214
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
				EP 1982-306683	A	19821214
	RO 84911	P	19840817	RO 1982-109396		19821220
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	RO 87709	B3	19851031	RO 1982-113244		19821220
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	DK 8205654	A	19830623	DK 1982-5654		19821221
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930
	FI 8204409	A	19830623	FI 1982-4409		19821221
	FI 80039	B	19891229			
	FI 80039	C	19900410			
				US 1981-334022	A	19811222
				US 1982-429915	A	19820930

NO 8204305	A	19830623	NO 1982-4305		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
AU 8291721	A1	19830630	AU 1982-91721		19821221
AU 537214	B2	19840614			
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
ZA 8209372	A	19830928	ZA 1982-9372		19821221
			US 1981-334022	A	19811222
HU 27683	O	19831028	HU 1982-4105		19821221
HU 187737	B	19860228			
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
ES 518425	A1	19840201	ES 1982-518425		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
DD 207379	A5	19840229	DD 1982-246325		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
IL 67530	A1	19860228	IL 1982-67530		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
CA 1213582	A1	19861104	CA 1982-418192		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
PL 140291	B1	19870430	PL 1982-248637		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
PL 141306	B1	19870731	PL 1982-239651		19821221
			US 1981-334022	A	19811222
SU 1405704	A3	19880623	SU 1982-3529507		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
PL 145927	B1	19881130	PL 1982-256903		19821221
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
JP 58116486	A2	19830711	JP 1982-225773		19821222
JP 02051436	B4	19901107			
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
CS 236867	B2	19850515	CS 1982-9559		19821222
			US 1982-429915	A	19820930
CS 236895	B2	19850515	CS 1983-7237		19821222
			US 1982-429915	A	19820930
ES 524894	A1	19850201	ES 1983-524894		19830811
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
ES 524895	A1	19850201	ES 1983-524895		19830811
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
CA 1236828	A2	19880517	CA 1986-513548		19860710
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
			CA 1982-418192	A3	19821221
FI 8800653	A	19880212	FI 1988-653		19880212
FI 81102	B	19900531			
FI 81102	C	19900910			
			US 1981-334022	A	19811222
			US 1982-429915	A	19820930
			FI 1982-4409	A	19821221
FI 8800654	A	19880212	FI 1988-654		19880212
FI 81353	B	19900629			

FI 81353	C	19901010				
			US 1981-334022	A	19811222	
			US 1982-429915	A	19820930	
			FI 1982-4409	A	19821221	
JP 02270881	A2	19901105	JP 1990-33601		19900214	
			US 1981-334022	A	19811222	
			US 1982-429915	A	19820930	
DK 9200690	A	19920526	DK 1992-690		19920526	
			US 1981-334022	A	19811222	
			US 1982-429915	A	19820930	
DK 9200691	A	19920526	DK 1992-691		19920526	
			US 1981-334022	A	19811222	
			US 1982-429915	A	19820930	

GI



I

AB Diesters of alkanedicarboxylic acids with penicillin esters and penicillanates, penicillanate dioxides, or hydroxyethyleneoxaazabicyclohep tanecarboxylates were prepared Thus, I was obtained from Na penicillanate dioxide, ampicillin, and K benzyl trans-1,4-cyclohexanedicarboxylate, ClCH2I, and BrCH2Cl in 10 steps.

IT 26787-78-0 35334-12-4 68373-14-8 76953-81-6 87343-35-9 87343-46-2
RL: PROC (Process)
(conversion of, to tetrabutylammonium salt)

IT 13149-00-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of)

IT 593-71-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of penicillanic acids by)

IT 15014-25-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(methylation of)

IT 79634-06-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(neutralization and oxidation of)

IT 19851-61-7 62787-85-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(partial hydrolysis of)

IT 79634-01-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorination of)

IT 79703-02-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to potassium salt)

IT 87353-42-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to sodium salt)

IT 87353-01-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to tetrabutylammonium salt)

IT 87352-86-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deblocking of)

IT 87353-30-8P 87353-32-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and epimerization of)

IT 79886-08-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification of)

IT 87352-99-6P 87353-00-2P 87353-26-2P 87366-97-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

IT 79634-03-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenolysis and oxidation of)

IT 87343-24-6P 87343-25-7P 87343-26-8P 87343-38-2P 87343-43-9P
87343-50-8P 87343-59-7P 87343-62-2P 87352-82-7P 87352-84-9P
87353-24-0P 87353-25-1P 87353-33-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenolysis of)

IT 87343-54-2P 87343-56-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis and hydrogenolysis of)

IT 298-14-6P 87352-89-4P 87352-91-8P 87352-93-0P 87353-09-1P
87353-11-5P 87353-12-6P 87353-17-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

IT 76247-40-0P 76350-34-0P 76946-48-0P 87353-05-7P 87392-99-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and iodination of)

IT 87343-44-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and neutralization of)

IT 79634-02-9P 86287-78-7P 86287-79-8P 87353-27-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

IT 57772-82-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and partial hydrolysis of)

IT 76909-19-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with acetoacetate)

IT 87353-04-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(preparation and reaction of, with ampicillin derivative)
IT 87343-39-3P 87343-51-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with ampicillin iodomethyl ester)
IT 87343-37-1P 87343-41-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with bromochloromethane)
IT 84256-84-8P 84458-33-3P 87343-48-4P 87343-53-1P 87353-03-5P 87353-07-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with chloroiodomethane)
IT 87343-34-8P 87343-42-8P 87343-49-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with dioxopenicillanate)
IT 87393-00-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with dioxopenicillanoyloxymethyl alkanedicarboxylates)
IT 76909-27-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with dioxopenicillanoyloxymethyl glutarate)
IT 87353-38-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodomethyl azidophenylacetamidopenicillanate)
IT 87353-20-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodomethyl bromopenicillanate)
IT 87353-08-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodomethyl dioxopenicillanoyloxymethyl dimethylmalonate)
IT 87343-32-6P 87353-37-5P 87353-39-7P 87353-41-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with iodomethylampicillin ester)
IT 76247-39-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with monobenzyl succinate)
IT 76350-40-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with penicillanoyloxymethyl glutarate)
IT 87343-61-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with penicillin B)
IT 18520-63-3P 75694-28-9P 79634-05-2P 79886-07-0P 84256-87-1P 86256-86-2P 86507-74-6P 87343-21-3P 87343-22-4P 87343-27-9P 87343-28-0P 87343-29-1P 87343-31-5P 87343-33-7P 87343-45-1P 87343-55-3P 87343-57-5P 87343-60-0P 87343-63-3P 87352-83-8P

87352-85-0P 87352-87-2P 87352-88-3P 87352-90-7P 87352-92-9P
87352-94-1P 87352-95-2P 87352-96-3P 87352-97-4P 87352-98-5P
87353-10-4P 87353-13-7P 87353-16-0P 87353-18-2P 87353-21-7P
87353-28-4P 87353-29-5P 87353-31-9P 87353-34-2P 87353-35-3P
87353-36-4P 87353-40-0P 87392-98-1P 87419-73-6P
87419-75-8P 87503-35-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT 69-53-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acetoacetate)
IT 74-97-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with alkanedicarboxylic acids)
IT 105-45-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with ampicillin)
IT 69388-84-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzyl chloromethyl adipate)
IT 132-92-3 132-98-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzyl chloromethyl dimethylmalonate)
IT 67852-88-4 87353-23-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with bromochloromethane)
IT 87353-15-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloroiodomethane)
IT 4027-64-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloromethyl chlorosulfonate)
IT 67799-92-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dibromopenicillanate)
IT 87343-30-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dioxopenicillanate)
IT 35564-99-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with formaldehyde)
IT 103-40-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with iodomethylpenicillanate dioxide)
IT 87343-58-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with penicillin B)

L5 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI Substituted alkyl esters of quinoxaline-di-N-oxide-2-carboxylic acid
AN 1977:190008 CAPLUS
DN 86:190008
TI Substituted alkyl esters of quinoxaline-di-N-oxide-2-carboxylic acid
IN Cronin, Timothy H.; Richardson, Kenneth
PA Pfizer Inc., USA
SO U.S., 28 pp. Division of U.S. 3,915,975.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	US 4007184	A	19770208	US 1975-621219		19751009
				US 1970-20841	A2	19700318
				US 1971-135792	A3	19710420
				US 1973-397162	A3	19730913
	US 3818007	A	19740618	US 1971-135792		19710420
				US 1970-20841	A2	19700318
	BE 781363	A4	19720929	BE 1972-3905		19720329
				BE 1971-764088	A	19710311
				US 1971-135792	A	19710420
	US 3841254	A	19741015	US 1973-325354		19730122
				GB 1972-4505	A	19720131
	DK 135718	B	19770613	DK 1973-4320		19730807
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
				DK 1971-999	A	19710304
	DK 137958	B	19780612	DK 1973-4321		19730807
	DK 137958	C	19781106			
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
				DK 1971-999	A	19710304
	US 3915975	A	19751028	US 1973-397162		19730913
				US 1970-20841	A2	19700318
				US 1971-135792	A3	19710420

PATENT FAMILY INFORMATION:

FAN 1972:3900

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	DE 2111710	A	19710930	DE 1971-2111710		19710311
	DE 2111710	C3	19790913			
	DE 2111710	B2	19790125			
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	US 3671521	A	19720620	US 1970-20842	A	19700318
	GB 1330151	A	19730912	GB 1970-52312		19701103
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	ZA 7101022	A	19711229	ZA 1971-1022		19710217
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	ES 388787	A1	19740201	ES 1971-388787		19710302
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	DK 131677	B	19750818	DK 1971-999		19710304
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	NL 7102953	A	19710921	NL 1971-2953		19710305
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	AT 315865	B	19740610	AT 1971-1915		19710305
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	IT 1019008	A	19771110	IT 1971-48832		19710305
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	JP 54034756	B4	19791029	JP 1971-11361		19710305
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	BE 764088	A1	19710913	BE 1971-2940		19710311
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	FR 2085717	A5	19711231	FR 1971-8799		19710312

	FR 2085717	B1	19750606			
				US 1970-20842	A	19700318
	CH 535242	A	19730515	CH 1972-4176		19710312
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	CH 539061	A	19730831	CH 1972-3708		19710312
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	CH 557356	A	19741231	CH 1971-3667		19710312
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	US 3841254	A	19741015	US 1973-325354		19730122
				GB 1972-4505	A	19720131
	DK 135718	B	19770613	DK 1973-4320		19730807
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
				DK 1971-999	A	19710304
	DK 137958	B	19780612	DK 1973-4321		19730807
	DK 137958	C	19781106			
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
				DK 1971-999	A	19710304
	US 3870718	A	19750311	US 1973-405114		19731010
				US 1970-20842	A3	19700318
				US 1971-207534	A1	19711213
	JP 53127486	A2	19781107	JP 1978-48318		19780422
	JP 55004748	B4	19800131			
				US 1970-208417	A	19700318
				US 1970-20842	A	19700318
	JP 53127487	A2	19781107	JP 1978-48319		19780422
	JP 55004749	B4	19800131			
				US 1970-208417	A	19700318
				US 1970-20842	A	19700318
	NL 7808008	A	19781130	NL 1978-8008		19780728
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
	NL 7808009	A	19781130	NL 1978-8009		19780728
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318

FAN 1973:72208

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	DE 2215231	A	19721207	DE 1972-2215231		19720329
				US 1971-135792	A	19710420
	US 3818007	A	19740618	US 1971-135792		19710420
				US 1970-20841	A2	19700318
	GB 1377306	A	19741211	GB 1972-4505		19720131
				US 1971-135792	A	19710420
	SE 394279	B	19770620	SE 1972-3794		19720323
				US 1971-135792	A	19710420
	ZA 7202025	A	19721227	ZA 1972-2025		19720324
				US 1971-135792	A	19710420
	CA 982133	A1	19760120	CA 1972-138047		19720324
				US 1971-135792	A	19710420
	DK 142849	B	19810209	DK 1972-1493		19720328
	DK 142849	C	19810928			
				US 1971-135792	A	19710420
	BE 781363	A4	19720929	BE 1972-3905		19720329
				BE 1971-764088	A	19710311
				US 1971-135792	A	19710420
	AT 318617	B	19741111	AT 1972-2749		19720329
				US 1971-135792	A	19710420

	ES 401333	A2	19750316	ES 1972-401333		19720329
				US 1971-135792	A	19710420
	FI 54473	C	19781211	FI 1972-883		19720329
				US 1971-135792	A	19710420
	NL 7204391	A	19721024	NL 1972-4391		19720330
				US 1971-135792	A	19710420
	FR 2133597	A6	19721201	FR 1972-11322		19720330
	FR 2133597	B2	19751226			
				US 1971-135792	A	19710420
	US 3841254	A	19741015	US 1973-325354		19730122
				GB 1972-4505	A	19720131
	JP 55062074	A2	19800510	JP 1979-117177		19790912
	JP 56000431	B4	19810108			
				US 1971-135792	A	19710420

FAN 1975:428285

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	AT 315188	B	19740510	AT 1973-1056		19710305
				US 1970-20841	A	19700318
	CA 942309	A1	19740219	CA 1971-107113		19710308
				US 1970-20841	A	19700318
	US 3841254	A	19741015	US 1973-325354		19730122
				GB 1972-4505	A	19720131
	DK 135718	B	19770613	DK 1973-4320		19730807
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
				DK 1971-999	A	19710304
	DK 137958	B	19780612	DK 1973-4321		19730807
	DK 137958	C	19781106			
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
				DK 1971-999	A	19710304

FAN 1976:17427

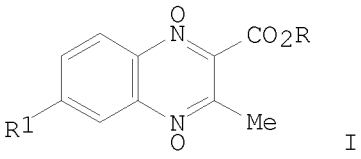
	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 3907994	A	19750923	US 1973-397163		19730913
				US 1970-20841	A2	19700318
				US 1971-135792	A3	19710420
	US 3818007	A	19740618	US 1971-135792		19710420
				US 1970-20841	A2	19700318
	BE 781363	A4	19720929	BE 1972-3905		19720329
				BE 1971-764088	A	19710311
				US 1971-135792	A	19710420
	US 3841254	A	19741015	US 1973-325354		19730122
				GB 1972-4505	A	19720131
	DK 135718	B	19770613	DK 1973-4320		19730807
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
				DK 1971-999	A	19710304
	DK 137958	B	19780612	DK 1973-4321		19730807
	DK 137958	C	19781106			
				US 1970-20841	A	19700318
				US 1970-20842	A	19700318
				DK 1971-999	A	19710304

FAN 1976:59564

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 3915975	A	19751028	US 1973-397162		19730913
				US 1970-20841	A2	19700318
				US 1971-135792	A3	19710420
	US 3818007	A	19740618	US 1971-135792		19710420
				US 1970-20841	A2	19700318

BE 781363	A4	19720929	BE 1972-3905		19720329
			BE 1971-764088	A	19710311
			US 1971-135792	A	19710420
US 3841254	A	19741015	US 1973-325354		19730122
			GB 1972-4505	A	19720131
DK 135718	B	19770613	DK 1973-4320		19730807
			US 1970-20841	A	19700318
			US 1970-20842	A	19700318
			DK 1971-999	A	19710304
DK 137958	B	19780612	DK 1973-4321		19730807
DK 137958	C	19781106			
			US 1970-20841	A	19700318
			US 1970-20842	A	19700318
			DK 1971-999	A	19710304
US 4007184	A	19770208	US 1975-621219		19751009
			US 1970-20841	A2	19700318
			US 1971-135792	A3	19710420
			US 1973-397162	A3	19730913

GI



I

AB Quinoxalinecarboxylates I (R = substituted alkyl, R1 = H, Cl) (30 compds.) were prepared Thus, benzofuroxan was condensed with AcOCH2CH2O2CCH2COMe to give I (R = AcOCH2CH2, R1 = H), which had min. inhibitory concns. against Staphylococcus aureas and EScherichia coli 12.5 and 50, resp., and at 50 g/ton in swine feed gave 53% weight gain over controls.

IT Bactericides, Disinfectants and Antiseptics
(Quinoxalinecarboxylate dioxides)

IT Animal growth substances
RL: RCT (Reactant); RACT (Reactant or reagent)
(promoters, Quinoxalinecarboxylate dioxides)

IT 1120-64-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(Friedel-Crafts acetylation of)

IT 542-59-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(acetylation of)

IT 34500-02-2 39507-89-6 62776-79-8 62776-80-1 62776-81-2
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bactericidal activity of)

IT 480-96-6 17348-69-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with acetoacetate)

IT 57561-36-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with benzofuroxan)

IT 34499-96-2P 34499-97-3P 34499-98-4P 34499-99-5P 34500-00-0P
34500-01-1P 34500-02-2P 34500-03-3P 39507-88-5P 39507-89-6P
39559-14-3P 39559-15-4P 39559-16-5P 39559-17-6P 39559-18-7P
39559-19-8P 39559-20-1P 39559-23-4P 39559-24-5P 39606-30-9P

62730-73-8P 62730-74-9P 62730-75-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal activity of)
IT 6131-49-3P 34500-18-0P 34500-19-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and condensation of, with benzofuroxan)
IT 34500-12-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)
IT 34500-24-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with benzofuroxan)
IT 13670-39-8P 34500-04-4P 34500-21-5P 62730-76-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT 34499-93-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, hydrolysis, and bactericidal activity of)
IT 463-51-4 40016-70-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (dimethylamino)ethanol)
IT 24812-73-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acetoxyethanol)
IT 674-82-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with bromoethylamine)
IT 542-59-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with cyanoquinoxaline dioxide)
IT 2576-47-8 57561-39-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with diketene)
IT 108-01-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with quinoxalinecarboxylate)

=> 87353-40-0
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

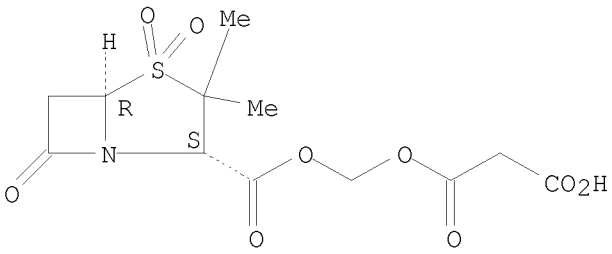
L7 4 L6

=> display hitstr l7
ENTER ANSWER NUMBER OR RANGE (1):1-4

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
IT 87353-40-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 87353-40-0 CAPLUS
CN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-yl)carbonyl]oxy]methyl] ester, sodium salt, (2S-cis)- (9CI) (CA INDEX NAME)

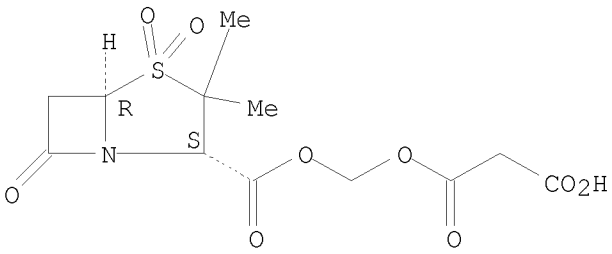
Absolute stereochemistry.



● Na

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
IT 87353-40-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 87353-40-0 CAPLUS
CN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-yl)carbonyl]oxy]methyl] ester, sodium salt, (2S-cis)- (9CI) (CA INDEX NAME)

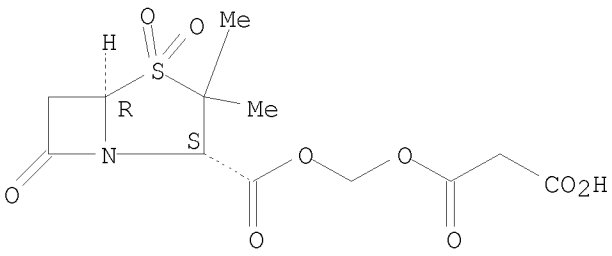
Absolute stereochemistry.



● Na

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
IT 87353-40-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acetoacetate)
RN 87353-40-0 CAPLUS
CN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-yl)carbonyl]oxy]methyl] ester, sodium salt, (2S-cis)- (9CI) (CA INDEX NAME)

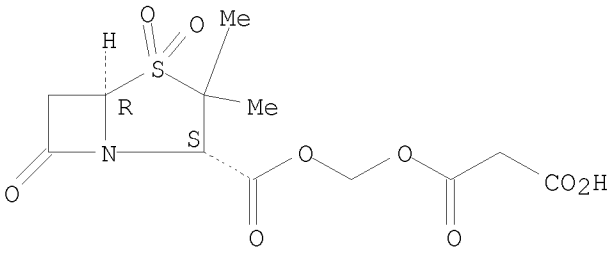
Absolute stereochemistry.



● Na

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
IT 87353-40-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 87353-40-0 CAPLUS
CN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-yl)carbonyl]oxy]methyl] ester, sodium salt, (2S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Na

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.73	254.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.00

FILE 'REGISTRY' ENTERED AT 06:32:44 ON 28 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

```
STRUCTURE FILE UPDATES:   27 NOV 2006  HIGHEST RN 914071-04-8
DICTIONARY FILE UPDATES:  27 NOV 2006  HIGHEST RN 914071-04-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d his

     (FILE 'HOME' ENTERED AT 06:14:28 ON 28 NOV 2006)

     FILE 'REGISTRY' ENTERED AT 06:14:44 ON 28 NOV 2006
L1             STRUCTURE UPLOADED
L2           2 SEARCH L1 SSS SAM

     FILE 'CAPLUS' ENTERED AT 06:20:14 ON 28 NOV 2006
L3           2 L2

     FILE 'REGISTRY' ENTERED AT 06:22:26 ON 28 NOV 2006
L4          37 SEARCH L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 06:24:05 ON 28 NOV 2006
L5          22 L4
               SAVE TEMP L5 MALONTES/A
               S 87353-40-0/REG#

     FILE 'REGISTRY' ENTERED AT 06:29:53 ON 28 NOV 2006
L6           1 S 87353-40-0/RN

     FILE 'CAPLUS' ENTERED AT 06:29:54 ON 28 NOV 2006
L7           4 S L6

     FILE 'REGISTRY' ENTERED AT 06:32:44 ON 28 NOV 2006

=> save temp l4 rawcompnds/a
ANSWER SET L4 HAS BEEN SAVED AS 'RAWCOMPNDS/A'

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   8.80     263.44

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -6.00

FILE 'REGISTRY' ENTERED AT 06:44:34 ON 28 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
```

provided by InfoChem.

STRUCTURE FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8
DICTIONARY FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

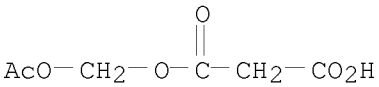
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

```
=> e Propanedioic acid, mono((acetyloxy)methyl) ester/cn
E1            1     PROPANEDIOIC ACID, MONO((8-FORMYL-4,15,15-TRIMETHYL-14-OXABI
                    CYCLO(11.2.1)HEXADECA-4,8-DIEN-12-YL)METHYL) ESTER, (1R-(1R*
                    ,4Z,8E,12S*,13S*))-/CN
E2            1     PROPANEDIOIC ACID, MONO((8A-((ACETYLOXY)METHYL)-5-(2-(3-FURA
                    NYL)ETHYL)-3,4,4A,5,6,7,8,8A-OCTAHYDRO-5,6-DIMETHYL-1-NAPHTH
                    ALENYL)METHYL) ESTER, (4AR-(4AA,5A,6B,8A.BE
                    TA.))-/CN
E3            1 --> PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER/CN
E4            1     PROPANEDIOIC ACID, MONO((BIS(2-HYDROXYPHENYL)METHYLENE)HYDRA
                    ZIDE)/CN
E5            1     PROPANEDIOIC ACID, MONO((DECAHYDRO-1,4A-DIMETHYL-6-METHYLENE
                    -5-(3-METHYL-2,4-PENTADIENYL)-1-NAPHTHALENYL)METHYL) ESTER,
                    (1R-(1A,4AA,5B(Z),8AB))-/CN
E6            1     PROPANEDIOIC ACID, MONO(Γ-Ω-PERFLUORO-C8-12-ALKY
                    L) DERIVS., BIS(4-(ETHENYLOXY)BUTYL) ESTERS/CN
E7            1     PROPANEDIOIC ACID, MONO(Γ-Ω-PERFLUORO-C8-12-ALKY
                    L) DERIVS., DI-ME ESTERS/CN
E8            1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) 2-(((2-ETHOXY-2-O
                    XOETHYL)AMINO)THIOXOMETHYL)HYDRAZIDE/CN
E9            1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER/CN
E10           1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, 2-((5-CHLO
                    RO-1H-INDOL-2-YL)CARBONYL)HYDRAZIDE/CN
E11           1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, 2-METHYL-2
                    -(PHENYLTHIOXOMETHYL)HYDRAZIDE/CN
E12           1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, AMMONIUM S
                    ALT/CN

=> e3
L8            1 "PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER"/CN

=> d l8

L8   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   683251-13-0  REGISTRY
ED   Entered STN:  19 May 2004
CN   Propanedioic acid, mono[(acetyloxy)methyl] ester (9CI)  (CA
     INDEX NAME)
MF   C6 H8 O6
SR   CA
LC   STN Files:   CA, CAPLUS
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       7.54     270.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -6.00

FILE 'CAPLUS' ENTERED AT 06:45:57 ON 28 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 28 Nov 2006  VOL 145 ISS 23
FILE LAST UPDATED: 27 Nov 2006  (20061127/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> l8
L9           1 L8

=> d l9

L9   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2004:354912  CAPLUS
DN   140:374903
TI   Process for preparation of malonic acid monoesters
IN   Sawabe, Takehiko; Aihara, Kazuhiro; Atsumi, Kunio; Ajito, Keiichi
PA   Meiji Seika Kaisha, Ltd., Japan
SO   PCT Int. Appl., 41 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 2
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
```

```
     ---------------     ----   --------    --------------------   --------
PI   WO 2004035540         A1    20040429    WO 2003-JP13319         20031017
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
             GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
             LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
             OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
             TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2003301426          A1    20040504    AU 2003-301426          20031017
     EP 1561748             A1    20050810    EP 2003-756680          20031017
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     US 2005272950          A1    20051208    US 2005-531382          20050415
PRAI JP 2002-304630         A     20021018
     JP 2003-50293          A     20030227
     WO 2003-JP13319        W     20031017
OS   MARPAT 140:374903
RE.CNT  2     THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    1.60     272.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -6.00

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:46:28 ON 28 NOV 2006

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  JAN 02  STN pricing information for 2008 now available
 NEWS  3  JAN 16  CAS patent coverage enhanced to include exemplified
                  prophetic substances
 NEWS  4  JAN 28  USPATFULL, USPAT2, and USPATOLD enhanced with new
                  custom IPC display formats
 NEWS  5  JAN 28  MARPAT searching enhanced
 NEWS  6  JAN 28  USGENE now provides USPTO sequence data within 3 days
                  of publication
 NEWS  7  JAN 28  TOXCENTER enhanced with reloaded MEDLINE segment
```

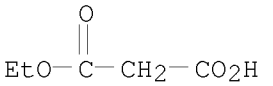
```
 NEWS  8  JAN 28  MEDLINE and LMEDLINE reloaded with enhancements
 NEWS  9  FEB 08  STN Express, Version 8.3, now available
 NEWS 10  FEB 20  PCI now available as a replacement to DPCI
 NEWS 11  FEB 25  IFIREF reloaded with enhancements
 NEWS 12  FEB 25  IMSPRODUCT reloaded with enhancements
 NEWS 13  FEB 29  WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                  U.S. National Patent Classification
 NEWS 14  MAR 31  IFICDB, IFIPAT, and IFIUDB enhanced with new custom
                  IPC display formats
 NEWS 15  MAR 31  CAS REGISTRY enhanced with additional experimental
                  spectra
 NEWS 16  MAR 31  CA/CAplus and CASREACT patent number format for U.S.
                  applications updated
 NEWS 17  MAR 31  LPCI now available as a replacement to LDPCI
 NEWS 18  MAR 31  EMBASE, EMBAL, and LEMBASE reloaded with enhancements
 NEWS 19  APR 04  STN AnaVist, Version 1, to be discontinued
 NEWS 20  APR 15  WPIDS, WPINDEX, and WPIX enhanced with new
                  predefined hit display formats

 NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:55:53 ON 16 APR 2008

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 08:56:05 ON 16 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   15 APR 2008  HIGHEST RN 1015083-77-8
DICTIONARY FILE UPDATES:  15 APR 2008  HIGHEST RN 1015083-77-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.
```

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

```
=> e malonic acid/cn
E1            1     MALONHYDRAZIDE HYDROCHLORIDE/CN
E2            1     MALONHYDROXAMIC ACID, ISONITROSO-/CN
E3            1 --> MALONIC ACID/CN
E4            1     MALONIC ACID (B-HYDROXY-A-METHYL-P-NITROCINNAMYLI
                    DENE)-, Γ-LACTONE, METHYL ESTER/CN
E5            1     MALONIC ACID (2-HYDROXY-1-ANTHRYLMETHYLENE)-, Δ-LACTON
                    E, ETHYL ESTER/CN
E6            1     MALONIC ACID (OXYDIMETHYLENE)BIS(ALLYL-/CN
E7            1     MALONIC ACID (P-CHLORO-A-HYDROXY-B-MERCAPTOCINNAM
                    YLIDENE)-, Γ-(THIO LACTONE), ALLYL ESTER/CN
E8            1     MALONIC ACID ANHYDRIDE/CN
E9            1     MALONIC ACID BARIUM SALT/CN
E10           1     MALONIC ACID BENZYL ETHYL ESTER/CN
E11           1     MALONIC ACID BENZYL TERT-BUTYL ESTER/CN
E12           1     MALONIC ACID BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER/
                    CN

=> e e12
E1            1     MALONIC ACID BENZYL ETHYL ESTER/CN
E2            1     MALONIC ACID BENZYL TERT-BUTYL ESTER/CN
E3            1 --> MALONIC ACID BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER/
                    CN
E4            1     MALONIC ACID BIS(2-PROPYLIDENEHYDRAZIDE)/CN
E5            1     MALONIC ACID CHLORIDE/CN
E6            1     MALONIC ACID CHLORIDE ETHYL ESTER/CN
E7            1     MALONIC ACID CHLORIDE MONOETHYL ESTER/CN
E8            1     MALONIC ACID CHLORIDE MONOMETHYL ESTER/CN
E9            1     MALONIC ACID COMPD. WITH DL-HISTIDINE (1:1)/CN
E10           1     MALONIC ACID COMPD. WITH L-HISTIDINE (1:1)/CN
E11           1     MALONIC ACID DIAMIDE/CN
E12           1     MALONIC ACID DIANILIDE/CN

=> e e12
E1            1     MALONIC ACID COMPD. WITH L-HISTIDINE (1:1)/CN
E2            1     MALONIC ACID DIAMIDE/CN
E3            1 --> MALONIC ACID DIANILIDE/CN
E4            1     MALONIC ACID DICHLORIDE/CN
E5            1     MALONIC ACID DIHYDRAZIDE-N-METHYLDIETHANOLAMINE-POLYTETRAMET
                    HYLENE GLYCOL-TDI BLOCK COPOLYMER/CN
E6            1     MALONIC ACID DIHYDRAZIDE-PYROMELLITIC DIANHYDRIDE POLYMER/CN
E7            1     MALONIC ACID DIMETHYL ESTER SODIUM SALT/CN
E8            1     MALONIC ACID DIMORPHOLIDE/CN
E9            1     MALONIC ACID DINITRILE/CN
E10           1     MALONIC ACID DIPHENYLAMIDE/CN
E11           1     MALONIC ACID ETHYL ESTER CHLORIDE/CN
E12           1     MALONIC ACID ETHYL ESTER NITRILE/CN

=> e e12
E1            1     MALONIC ACID DIPHENYLAMIDE/CN
E2            1     MALONIC ACID ETHYL ESTER CHLORIDE/CN
E3            1 --> MALONIC ACID ETHYL ESTER NITRILE/CN
E4            1     MALONIC ACID ETHYL ESTER POTASSIUM SALT/CN
E5            1     MALONIC ACID HEXAHYDRATE/CN
E6            1     MALONIC ACID HEXAMETHYLENEDIAMINE SALT/CN
```

```
E7            1     MALONIC ACID HYDRAZIDE/CN
E8            1     MALONIC ACID IMIDAZOLE SALT/CN
E9            1     MALONIC ACID LEAD(2+) SALT (1:1)/CN
E10           1     MALONIC ACID MAGNESIUM SALT P-METHOXYBENZYL ESTER/CN
E11           1     MALONIC ACID MANGANESE(2+) SALT (1:1)/CN
E12           1     MALONIC ACID METHYL TERT-BUTYL ESTER/CN

=> e4
L1            1 "MALONIC ACID ETHYL ESTER POTASSIUM SALT"/CN

=> d l1

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN   6148-64-7  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Propanedioic acid, 1-ethyl ester, potassium salt (1:1)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Malonic acid, monoethyl ester, potassium salt (8CI)
CN   Propanedioic acid, monoethyl ester, potassium salt (9CI)
OTHER NAMES:
CN   3-Ethoxy-3-oxopropanoic acid potassium salt
CN   Ethyl malonate potassium salt
CN   Ethyl potassium malonate
CN   Malonic acid ethyl ester potassium salt
CN   Malonic ethyl ester potassium salt
CN   Monoethyl malonate potassium salt
CN   Monoethyl potassium malonate
CN   Potassium ethyl malonate
CN   Potassium monoethyl malonate
MF   C5 H8 O4 . K
LC   STN Files:   BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB,
       MSDS-OHS, PS, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, USPATOLD
         (*File contains numerically searchable property data)
     Other Sources:   EINECS**
         (**Enter CHEMLIST File for up-to-date regulatory information)
CRN  (1071-46-1)
```

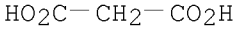


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

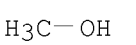
```
             344 REFERENCES IN FILE CA (1907 TO DATE)
             345 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> e prpandioic acid, ethyl ester/cn
E1            1     PRP8BP-PENDING PROTEIN (MOUSE STRAIN C57BL/6 CLONE MGC:66747
                     IMAGE:5714866)/CN
E2            1     PRP8BP-PENDING-PROV PROTEIN (XENOPUS LAEVIS CLONE MGC:53216
```

```
                  IMAGE:5543312)/CN
E3           0 --> PRPANDIOIC ACID, ETHYL ESTER/CN
E4           1     PRPB PROTEIN (ESCHERICHIA COLI STRAIN UTI89 GENE PRPB)/CN
E5           1     PRPC (BACILLUS LICHENIFORMIS STRAIN DSM13 GENE PRPC)/CN
E6           1     PRPD PROTEIN (RALSTONIA SOLANACEARUM STRAIN GMI1000 GENE PRP
                   D)/CN
E7           1     PRPD PROTEIN (SALMONELLA ENTERICA TYPHI STRAIN CT18 GENE PRP
                   D)/CN
E8           1     PRPD PROTEIN (SALMONELLA ENTERICA TYPHI STRAIN TY2 GENE PRPD
                   )/CN
E9           1     PRPE PROTEIN (SALMONELLA ENTERICA TYPHI STRAIN CT18 GENE PRP
                   E)/CN
E10          1     PRPE PROTEIN (SALMONELLA ENTERICA TYPHI STRAIN TY2 GENE PRPE
                   )/CN
E11          1     PRPE PROTEIN (VIBRIO CHOLERAE STRAIN N16961 GENE VC1340)/CN
E12          1     PRPE PROTEIN (VIBRIO PARAHAEMOLYTICUS STRAIN O3:K6 GENE VP16
                   44)/CN

=> e popandioic acid, ethyl ester/cn
E1           1     POP4 PROTEIN (MOUSE STRAIN FVB/N CLONE MGC:11597 IMAGE:39663
                   71)/CN
E2           1     POPA PROTEIN (RALSTONIA SOLANACEARUM STRAIN GMI1000 GENE POP
                   A)/CN
E3           0 --> POPANDIOIC ACID, ETHYL ESTER/CN
E4           1     POPB PROTEIN (RALSTONIA SOLANACEARUM STRAIN GMI1000 GENE POP
                   B)/CN
E5           3     POPC/CN
E6           1     POPC PROTEIN (RALSTONIA SOLANACEARUM STRAIN GMI1000 GENE POP
                   C)/CN
E7           1     POPCORN IRON/CN
E8           1     POPD/CN
E9           1     POPDA/CN
E10          1     POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN
E11          1     POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN
E12          1     POPDP/CN

=> e propanedioic acid, ethyl ester/cn
E1           1     PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN
E2           1     PROPANEDIOIC ACID, ETHYL 8-METHYL-8-AZABICYCLO(3.2.1)OCT-3-Y
                   L ESTER, ENDO-/CN
E3           0 --> PROPANEDIOIC ACID, ETHYL ESTER/CN
E4           1     PROPANEDIOIC ACID, ETHYL ETHYL-2,2,2-D3 ESTER/CN
E5           1     PROPANEDIOIC ACID, ETHYL HEXYL ESTER/CN
E6           1     PROPANEDIOIC ACID, ETHYL METHOXYMETHYL ESTER/CN
E7           1     PROPANEDIOIC ACID, ETHYL METHYL ESTER/CN
E8           1     PROPANEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN
E9           1     PROPANEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN
E10          1     PROPANEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM, POLY
                   MER WITH 4,4'-DIIODO-1,1'-BIPHENYL AND 1,2,10,11-DODECATETRA
                   ENE/CN
E11          1     PROPANEDIOIC ACID, ETHYL OCTYL ESTER/CN
E12          1     PROPANEDIOIC ACID, ETHYL PENTACHLOROPHENYL ESTER/CN

=> e propanedioic acid, methyl ester/cn
E1           1     PROPANEDIOIC ACID, METHYL 6-((4-METHYL-2-OXO-2H-1-BENZOPYRAN
                   -7-YL)OXY)HEXYL ESTER/CN
E2           1     PROPANEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)O
                   CTYL ESTER/CN
E3           1 --> PROPANEDIOIC ACID, METHYL ESTER/CN
E4           1     PROPANEDIOIC ACID, METHYL METHYL-D3 ESTER/CN
E5           1     PROPANEDIOIC ACID, METHYL PENTYL ESTER/CN
E6           1     PROPANEDIOIC ACID, METHYL PHENYL ESTER/CN
```

```
E7            1     PROPANEDIOIC ACID, METHYL PHENYLMETHYL ESTER/CN
E8            1     PROPANEDIOIC ACID, METHYL PROPYL ESTER/CN
E9            1     PROPANEDIOIC ACID, METHYL TETRADECAHYDRO-4,4,9,11B-TETRAMETH
                    YL-8-(3-METHYL-1-OXOBUTOXY)-9,11A-METHANO-11AH-CYCLOHEPTA(A)
                    NAPHTHALEN-6-YL ESTER, (4AS-(4AA,6B,6AB,8.AL
                    PHA.,9B,11A.BET/CN
E10           1     PROPANEDIOIC ACID, METHYL TETRADECAHYDRO-4,4,9,11B-TETRAMETH
                    YL-8-METHYLENE-9,11A-METHANO-11AH-CYCLOHEPTA(A)NAPHTHALEN-6-
                    YL ESTER, (4AS-(4AA,6B,6AB,9B,11AB
                    ,11BB))-/CN
E11           1     PROPANEDIOIC ACID, METHYL TETRADECAHYDRO-4,4,9,11B-TETRAMETH
                    YL-9,11A-METHANO-11AH-CYCLOHEPTA(A)NAPHTHALEN-8-YL ESTER, (4
                    AS-(4AA,6AB,8A,9B,11AB,11BB)
                    )-/CN
E12           1     PROPANEDIOIC ACID, METHYL TETRADECAHYDRO-6-HYDROXY-4,4,9,11B
                    -TETRAMETHYL-9,11A-METHANO-11AH-CYCLOPENTA(A)NAPHTHALEN-8-YL
                     ESTER, (4AS-(4AA,6B,6AB,8A,9B,11
                    AB,11BB))-/CN

=> e3
L2            1 "PROPANEDIOIC ACID, METHYL ESTER"/CN

=> d l2

L2   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN   214222-46-5  REGISTRY
ED   Entered STN:  12 Nov 1998
CN   Propanedioic acid, methyl ester (9CI)  (CA INDEX NAME)
MF   C3 H4 O4 . x C H4 O
SR   CA
LC   STN Files:   CA, CAPLUS

     CM   1

     CRN  141-82-2
     CMF  C3 H4 O4
```



```
     CM   2

     CRN  67-56-1
     CMF  C H4 O
```



```
               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      17.06      17.27

FILE 'CAPLUS' ENTERED AT 08:59:56 ON 16 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
```

FILE COVERS 1907 - 16 Apr 2008 VOL 148 ISS 16
FILE LAST UPDATED: 15 Apr 2008 (20080415/ED)


```
=> l
L3     1653089 L

=> l2
L4           2 L2

=> d l4 1-2 ti fbib abs
```

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI Catalytic system for cationic oligomerization of individual linear olefins or their mixtures
AN 2003:826894 CAPLUS
DN 140:148874
TI Catalytic system for cationic oligomerization of individual linear olefins or their mixtures
IN Matkovskii, P. E.; Startseva, G. P.; Aldoshin, S. M.; Mikhajlovich, D.; Stankovich, V.
PA Institut Problem Khimicheskoi Fiziki RAN, Russia; NIS - Neftyanaya Industriya Serbii, NIS - Rafineriya Nefti Novi Sad
SO Russ., No pp. given
CODEN: RUXXE7
DT Patent
LA Russian
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI RU 2212935	C2	20030927	RU 2001-109009	20010405
			RU 2001-109009	20010405

OS MARPAT 140:148874
AB This invention describes cationic catalytic systems and catalysts for oligomerization of individual C3-C14 olefins (LAO) or their mixts. to synthetic base poly- alpha-olefin oils (PAOO) and other types of lubricating oils for use in automobile, aviation, and transmission purposes. The invention proposes a mixed catalytic system RnAlX3-n-R'X for cationic oligomerization of individual LAO or their mixts. to synthetic PAOO base oils,(wherein R is Me, Et, Pr or iso-Bu; X is Cl, Br, I; n = 1.0; 1.5 or 2.0; R' is a primary, secondary or tertiary alkyl, allyl, benzyl, acetyl or benzoyl) and the system addnl. contains from 0.2 to 1.5 mol (mainly from 0.25 to 0.75 mol) of organic modifying agent per each mole of RnAlX3-n. As an organic modifying agent for the system, the

catalytic system comprises substances taken from the following group: ethylene glycol monomethyl ether, ethylene glycol monoethyl ether (Et cellosolve), acetylacetone, ethylene glycol di-Me ether, ethylene glycol di-Et ether, ethylene glycol Et Me ether, ethylene glycol methoxyacetate, ethylene glycol ethoxyacetate, ethylene glycol diacetate, 1,2-dimethoxypropane, malonic acid mono- or di-Me, mono- or di-Et esters, acetic acid anhydride, and benzophenone. The developed catalytic systems RnAlX3-n- -R'X combine high activity, high specific reproducibility, high selectivity by end products, universality with respect to olefin raw and provide preparing end products with lower solidification temperature points. These oligomers exhibit improved properties.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI Urinary organic acid screening by solid-phase microextraction of the methyl esters
AN 1998:578162 CAPLUS
DN 129:287530
TI Urinary organic acid screening by solid-phase microextraction of the methyl esters
AU Liebich, H. M.; Gesele, E.; Woll, J.
CS Medizinische Universitatsklinik, Tubingen, D-72076, Germany
SO Journal of Chromatography, B: Biomedical Sciences and Applications (1998), 713(2), 427-432
CODEN: JCBBEP; ISSN: 0378-4347
PB Elsevier Science B.V.
DT Journal
LA English
AB We developed a new sample preparation method for profiling organic acids in urine by GC or GC-MS. The method includes derivatization of the organic acids directly in the aqueous urine using trimethyloxonium tetrafluoroborate as a methylating agent, extraction of the organic acid Me esters from the urine by solid-phase microextn., using a polyacrylate fiber with a thickness of 85 μm and transfer of the Me esters into the GC or the GC-MS instrument. Desorption of the analytes takes place in the heated injection port. The proposed sample preparation is very simple. There is no need for any evaporation step and for the use of an organic solvent. The risk of contamination and the loss of analytes are minimized. The total sample preparation time prior to GC or GC-MS anal. is about 40 min, and therefore more rapid than other sample preparation procedures. The urinary organic acids are well separated by GC and 29 substances are identified by GC-MS.
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.74	30.01
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.60	-1.60

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:05:53 ON 16 APR 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 09:17:28 ON 16 APR 2008
FILE 'CAPLUS' ENTERED AT 09:17:28 ON 16 APR 2008
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.74	30.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.60	-1.60

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.22	30.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.60	-1.60

FILE 'REGISTRY' ENTERED AT 09:17:55 ON 16 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8
DICTIONARY FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

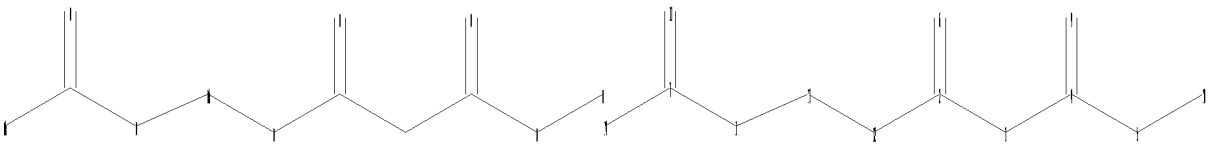
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10531382\10531382 elected subgenus.str



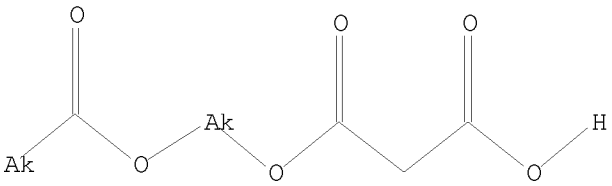
chain nodes :
1 2 3 4 5 6 7 9 10 11 12 13 14
chain bonds :
1-7 1-13 2-6 2-3 2-12 3-4 4-5 4-9 5-10 7-11 7-14 12-13
exact/norm bonds :
1-7 1-13 2-6 2-12 7-11 7-14 12-13
exact bonds :
2-3 3-4 5-10
normalized bonds :
4-5 4-9

Hydrogen count :
3:>= minimum 2 5:>= minimum 1
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS
Element Count :
Node 13: Limited
C,C1-6

Node 14: Limited
C,C1-6

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l5 sss sam
SAMPLE SEARCH INITIATED 09:18:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 13920 TO ITERATE

14.4% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 271332 TO   285468
PROJECTED ANSWERS: 0 TO   0

L6   0 SEA SSS SAM L5

=> search l5 sss full
FULL SEARCH INITIATED 09:18:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   274096 TO ITERATE

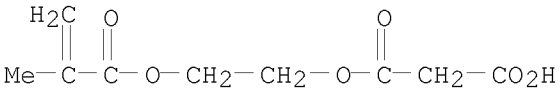
100.0% PROCESSED   274096 ITERATIONS   19 ANSWERS
SEARCH TIME: 00.00.14

L7   19 SEA SSS FUL L5

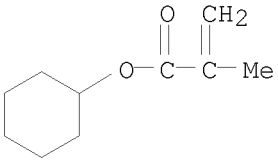
=> d scan

L7   19 ANSWERS   REGISTRY COPYRIGHT 2008 ACS on STN
IN   Propanedioic acid, 1-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl] ester,
     polymer with cyclohexyl 2-methyl-2-propenoate and methyl
     2-methyl-2-propenoate
MF   (C10 H16 O2 . C9 H12 O6 . C5 H8 O2)x
CI   PMS

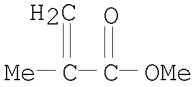
     CM   1



     CM   2



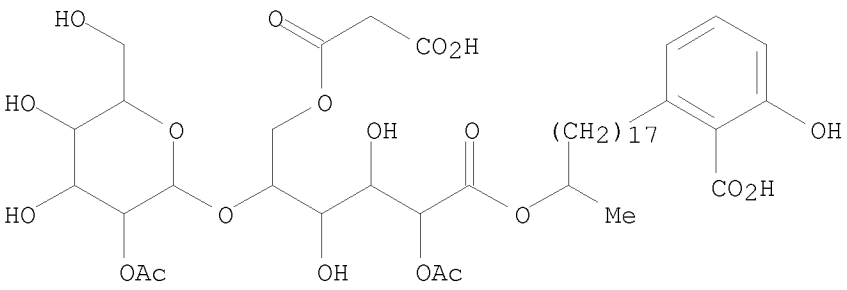
     CM   3



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L7   19 ANSWERS   REGISTRY COPYRIGHT 2008 ACS on STN
IN   Hexonic acid, 5-O-(2-O-acetylhexopyranosyl)-, 18-(2-carboxy-3-
     hydroxyphenyl)-1-methyloctadecyl ester, 2-acetate 6-(hydrogen
     propanedioate) (9CI)

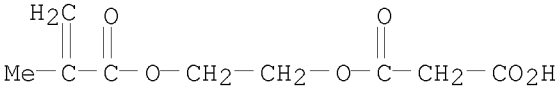
MF C45 H70 O20



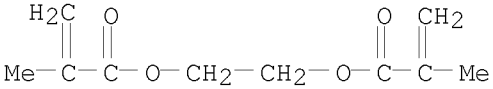
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate) and methyl 2-methyl-2-propenoate (9CI)
MF (C10 H14 O4 . C9 H12 O6 . C5 H8 O2)x
CI PMS

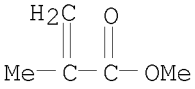
CM 1



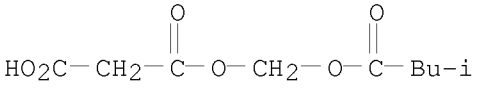
CM 2



CM 3

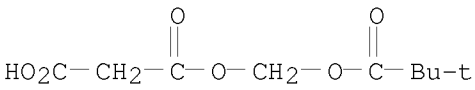


L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[(3-methyl-1-oxobutoxy)methyl] ester (9CI)
MF C9 H14 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

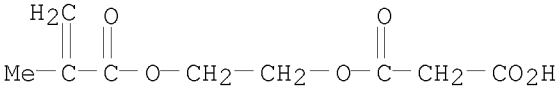
L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[(2,2-dimethyl-1-oxopropoxy)methyl] ester (9CI)
MF C9 H14 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

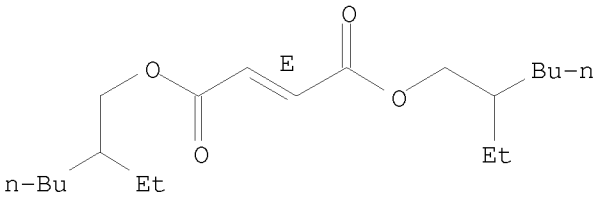
L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2-Butenedioic acid (2E)-, bis(2-ethylhexyl) ester, polymer with ethenylbenzene, 2,5-furandione and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl hydrogen propanedioate (9CI)
MF (C20 H36 O4 . C9 H12 O6 . C8 H8 . C4 H2 O3)x
CI PMS

CM 1

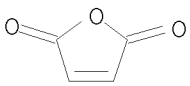


CM 2

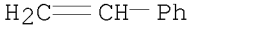
Double bond geometry as shown.



CM 3

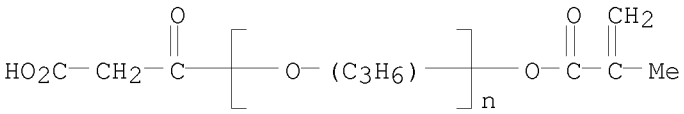


CM 4

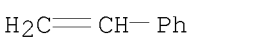


L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Poly[oxy(methyl-1,2-ethanediyl)], α-(carboxyacetyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]-, polymer with ethenylbenzene (9CI)
MF (C8 H8 . (C3 H6 O)n C7 H8 O5)x
CI PMS

CM 1

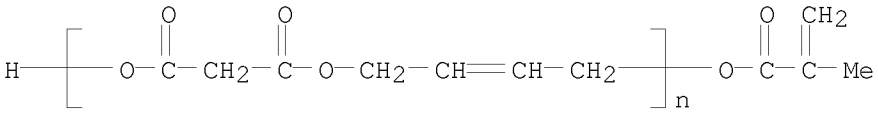


CM 2

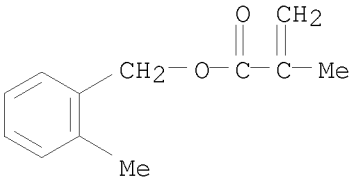


L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2-Propenoic acid, 2-methyl-, (2-methylphenyl)methyl ester, polymer with α-hydro-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy(1,3-dioxo-1,3-propanediyl)oxy-2-butene-1,4-diyl] (9CI)
MF (C12 H14 O2 . (C7 H8 O4)n C4 H6 O2)x
CI PMS

CM 1



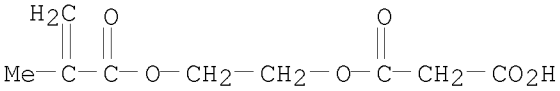
CM 2



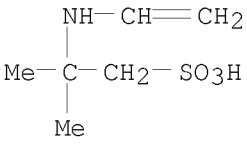
L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-(ethenylamino)-2-methyl-1-propanesulfonic acid and methyl 2-propenoate (9CI)
MF (C9 H12 O6 . C6 H13 N O3 S . C4 H6 O2)x

CI PMS

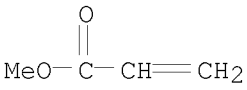
CM 1



CM 2

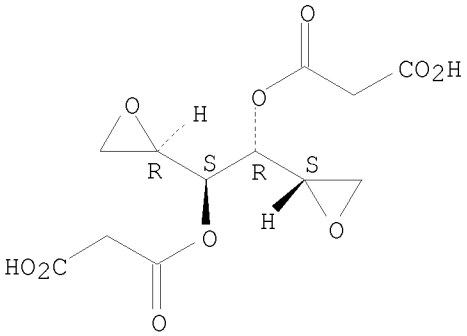


CM 3



L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Galactitol, 1,2:5,6-dianhydro-, bis(hydrogen propanedioate) (9CI)
MF C12 H14 O10

Relative stereochemistry.

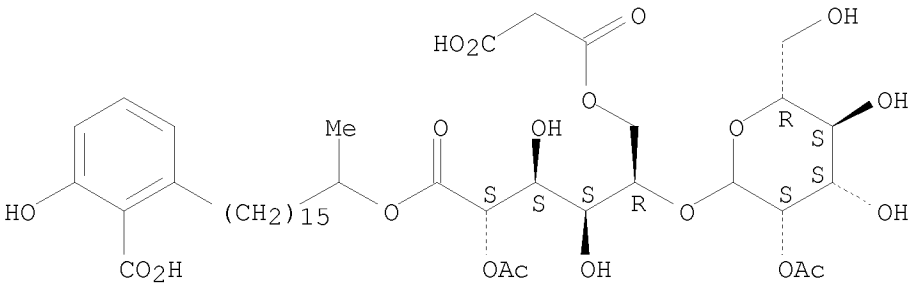


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN D-Mannonic acid, 5-O-(2-O-acetyl-D-mannopyranosyl)-, 16-(2-carboxy-3-hydroxyphenyl)-1-methylhexadecyl ester, 2-acetate 6-(hydrogen propanedioate)
MF C43 H66 O20

Absolute stereochemistry. Rotation (-).

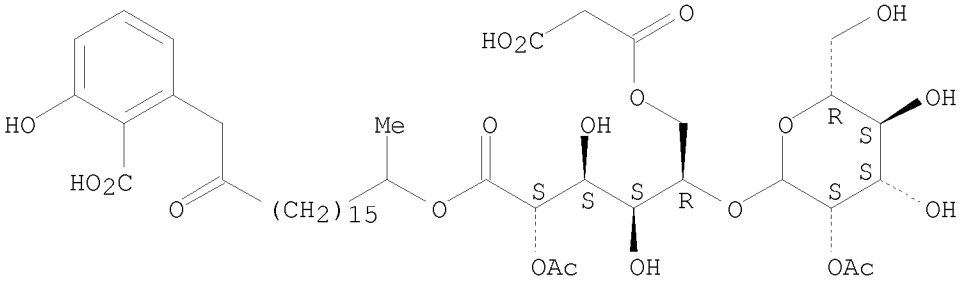
Currently available stereo shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

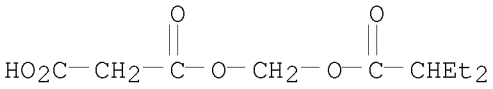
L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN D-Mannonic acid, 5-O-(2-O-acetyl-D-mannopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyl-17-oxooctadecyl ester, 2-acetate 6-(hydrogen propanedioate)
MF C45 H68 O21

Absolute stereochemistry. Rotation (-).
Currently available stereo shown.



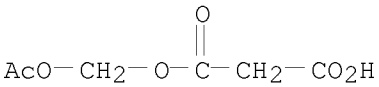
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[(2-ethyl-1-oxobutoxy)methyl] ester (9CI)
MF C10 H16 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

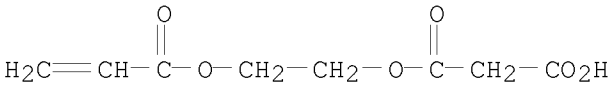
L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[(acetyloxy)methyl] ester (9CI)
MF C6 H8 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

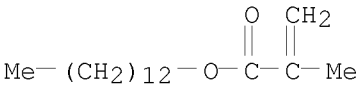
L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2-Propenoic acid, 2-methyl-, tridecyl ester, polymer with dodecyl 2-propenoate and 2-hydroxyethyl 2-propenoate, 2-[(1-oxo-2-propenyl)oxy]ethyl propanedioate (9CI)
MF (C17 H32 O2 . C15 H28 O2 . C5 H8 O3)x . x C8 H10 O6

CM 1

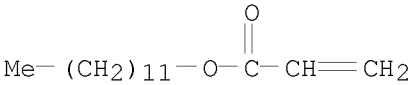


CM 2

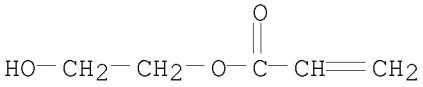
CM 3



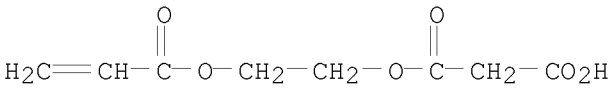
CM 4



CM 5

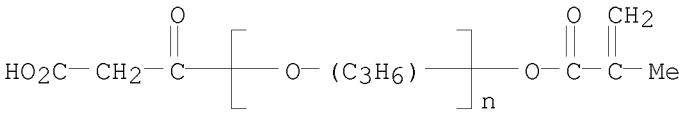


L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester (9CI)
MF C8 H10 O6
CI COM

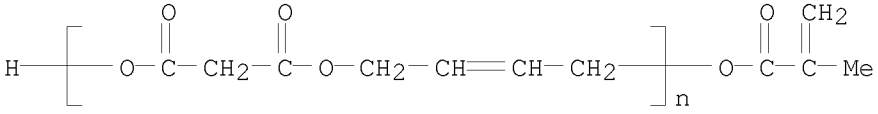


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

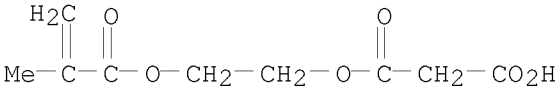
L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Poly[oxy(methyl-1,2-ethanediyl)], α-(carboxyacetyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]- (9CI)
MF (C3 H6 O)n C7 H8 O5
CI IDS, PMS, COM



L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Poly[oxy(1,3-dioxo-1,3-propanediyl)oxy-2-butene-1,4-diyl], α-hydro-ω-[(2-methyl-1-oxo-2-propenyl)oxy]- (9CI)
MF (C7 H8 O4)n C4 H6 O2
CI PMS, COM



L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester (9CI)
MF C9 H12 O6
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 179.28 209.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION

CA SUBSCRIBER PRICE 0.00 -1.60

FILE 'CAPLUS' ENTERED AT 09:19:56 ON 16 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 16 Apr 2008 VOL 148 ISS 16
FILE LAST UPDATED: 15 Apr 2008 (20080415/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> l7
L8 14 L7

=> d l8 1-14 ti

L8 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Ink-jet ink compositions with excellent dispersibility and storage stability and manufacture of lithographic printing plates using them

L8 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI F-16438s, novel binding inhibitors of CD44 and hyaluronic acid. II. Producing organism, fermentation, isolation, physico-chemical properties and structural elucidation

L8 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI F-16438s, novel binding inhibitors of CD44 and hyaluronic acid. Establishment of an assay method and biological activity

L8 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Gloeoporus for manufacture of inhibitors to Hyaluronic acid receptor CD44

L8 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Polymerizable compositions containing certain cyanine dyes with excellent storage stability and IR sensitivity and presensitized lithographic plates using them

L8 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Process for preparation of malonic acid monoesters

L8 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Process for preparation of carbapenem derivatives

L8 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Oily ink compositions for electrostatic ink-jet printing with good discharge stability and images having high clearness and adhesion strength

L8 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Resin composition for electrophotographic toner

L8 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Ultraviolet ray-curable adhesive compositions for metal hubs

L8 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Reactive emulsifiers for emulsion polymerization of vinyl compounds

L8 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Electrophotographic light-sensitive material

L8 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI High-contrast silver halide photographic material

L8 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI RP-HPLC assay for 1,2-5,6-dianhydro-3,4-disuccinylgalactitol and its metabolites in blood plasma and liver

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.92	217.69

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.60

FILE 'REGISTRY' ENTERED AT 09:23:16 ON 16 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8
DICTIONARY FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

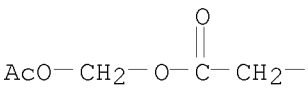
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e Propanedioic acid, mono((acetyloxy)methyl) ester/cn
E1 1 PROPANEDIOIC ACID, MONO((8-FORMYL-4,15,15-TRIMETHYL-14-OXABICYCLO(11.2.1)HEXADECA-4,8-DIEN-12-YL)METHYL) ESTER, (1R-(1R*,4Z,8E,12S*,13S*))-/CN

```
E2            1     PROPANEDIOIC ACID, MONO((8A-((ACETYLOXY)METHYL)-5-(2-(3-FURA
                    NYL)ETHYL)-3,4,4A,5,6,7,8,8A-OCTAHYDRO-5,6-DIMETHYL-1-NAPHTH
                    ALENYL)METHYL) ESTER, (4AR-(4AA,5A,6B,8A.BE
                    TA.))-/CN
E3            1 --> PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER/CN
E4            1     PROPANEDIOIC ACID, MONO((BIS(2-HYDROXYPHENYL)METHYLENE)HYDRA
                    ZIDE)/CN
E5            1     PROPANEDIOIC ACID, MONO((DECAHYDRO-1,4A-DIMETHYL-6-METHYLENE
                    -5-(3-METHYL-2,4-PENTADIENYL)-1-NAPHTHALENYL)METHYL) ESTER,
                    (1R-(1A,4AA,5B(Z),8AB))-/CN
E6            1     PROPANEDIOIC ACID, MONO(Γ-Ω-PERFLUORO-C8-12-ALKY
                    L) DERIVS., BIS(4-(ETHENYLOXY)BUTYL) ESTERS/CN
E7            1     PROPANEDIOIC ACID, MONO(Γ-Ω-PERFLUORO-C8-12-ALKY
                    L) DERIVS., DI-ME ESTERS/CN
E8            1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) 2-(((2-ETHOXY-2-O
                    XOETHYL)AMINO)THIOXOMETHYL)HYDRAZIDE/CN
E9            1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER/CN
E10           1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, 2-((5-CHLO
                    RO-1H-INDOL-2-YL)CARBONYL)HYDRAZIDE/CN
E11           1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, 2-METHYL-2
                    -(PHENYLTHIOXOMETHYL)HYDRAZIDE/CN
E12           1     PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, AMMONIUM S
                    ALT/CN

=> e3
L9            1 "PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER"/CN

=> d l9

L9   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN   683251-13-0  REGISTRY
ED   Entered STN:  19 May 2004
CN   Propanedioic acid, mono[(acetyloxy)methyl] ester (9CI)  (CA
     INDEX NAME)
MF   C6 H8 O6
SR   CA
LC   STN Files:   CA, CAPLUS
```



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   7.61     225.30

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -1.60

FILE 'CAPLUS' ENTERED AT 09:24:09 ON 16 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
```

FILE COVERS 1907 - 16 Apr 2008 VOL 148 ISS 16
FILE LAST UPDATED: 15 Apr 2008 (20080415/ED)

=> l9
L10 1 L9

=> d l10 ti fbib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
TI Process for preparation of malonic acid monoesters
AN 2004:354912 CAPLUS
DN 140:374903
TI Process for preparation of malonic acid monoesters
IN Sawabe, Takehiko; Aihara, Kazuhiro; Atsumi, Kunio; Ajito, Keiichi
PA Meiji Seika Kaisha, Ltd., Japan
SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 2004035540	A1	20040429	WO 2003-JP13319		20031017
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
				JP 2002-304630	A	20021018
				JP 2003-50293	A	20030227
	AU 2003301426	A1	20040504	AU 2003-301426		20031017
				JP 2002-304630	A	20021018
				JP 2003-50293	A	20030227
				WO 2003-JP13319	W	20031017
	EP 1561748	A1	20050810	EP 2003-756680		20031017
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
				JP 2002-304630	A	20021018

			JP 2003-50293	A	20030227
			WO 2003-JP13319	W	20031017
US 20050272950	A1	20051208	US 2005-531382		20050415
			JP 2002-304630	A	20021018
			JP 2003-50293	A	20030227
			WO 2003-JP13319	W	20031017

PATENT FAMILY INFORMATION:

FAN 2004:354911

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004035539	A1	20040429	WO 2003-JP13318	20031017

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

			JP 2002-304630	A	20021018
AU 2003301425	A1	20040504	AU 2003-301425		20031017
			JP 2002-304630	A	20021018
			WO 2003-JP13318	W	20031017

OS MARPAT 140:374903

AB This invention pertains to a method for producing malonic acid monoesters with general formula of HO2CCH2CO2R [where R = a group which is easily hydrolyzed in vivo] or salts, which comprises reacting malonic acid with a halide in the presence of a base. For example, acetoxymethyl bromide was reacted with malonic acid in THF in the presence of N,N-diisopropylethylamine to give malonic acid mono-acetoxymethyl ester. This invention provides a method to make malonic acid monoesters with low cost.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> sel l10
E1 THROUGH E5 ASSIGNED

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.76	237.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-2.40

FILE 'REGISTRY' ENTERED AT 09:26:07 ON 16 APR 2008

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8
DICTIONARY FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

```
=> e1-e5
NUMERIC VALUE NOT VALID 'ACID'
NUMERIC VALUE NOT VALID 'MALONIC'
NUMERIC VALUE NOT VALID 'MONOESTERS'
NUMERIC VALUE NOT VALID 'PREPARATION'
NUMERIC VALUE NOT VALID 'PROCESS'
             0 ACID/TI
             0 MALONIC/TI
             0 MONOESTERS/TI
             0 PREPARATION/TI
             0 PROCESS/TI
L11          0 (ACID/TI OR MALONIC/TI OR MONOESTERS/TI OR PREPARATION/TI OR
               PROCESS/TI)

=> s e1-e5
NUMERIC VALUE NOT VALID 'ACID'
NUMERIC VALUE NOT VALID 'MALONIC'
NUMERIC VALUE NOT VALID 'MONOESTERS'
NUMERIC VALUE NOT VALID 'PREPARATION'
NUMERIC VALUE NOT VALID 'PROCESS'
             0 ACID/TI
             0 MALONIC/TI
             0 MONOESTERS/TI
             0 PREPARATION/TI
             0 PROCESS/TI
L12          0 (ACID/TI OR MALONIC/TI OR MONOESTERS/TI OR PREPARATION/TI OR
               PROCESS/TI)

=> file caplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                  52.42     289.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -2.40

FILE 'CAPLUS' ENTERED AT 09:27:14 ON 16 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)
```

FILE COVERS 1907 - 16 Apr 2008 VOL 148 ISS 16
FILE LAST UPDATED: 15 Apr 2008 (20080415/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> sel l10 rn
E6 THROUGH E49 ASSIGNED

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.57	290.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.40

FILE 'REGISTRY' ENTERED AT 09:27:37 ON 16 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8
DICTIONARY FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

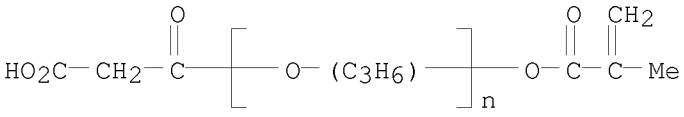
http://www.cas.org/support/stngen/stndoc/properties.html

=> s e6-e49
             1 103418-33-3/BI
               (103418-33-3/RN)
             1 103418-34-4/BI
               (103418-34-4/RN)
             1 108-48-5/BI
               (108-48-5/RN)
             1 109-99-9/BI
               (109-99-9/RN)
             1 1112-67-0/BI
               (1112-67-0/RN)
             1 121-44-8/BI
               (121-44-8/RN)
             1 141-82-2/BI

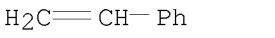
(141-82-2/RN)
1 35180-01-9/BI
(35180-01-9/RN)
1 40510-86-9/BI
(40510-86-9/RN)
1 40930-71-0/BI
(40930-71-0/RN)
1 50893-36-2/BI
(50893-36-2/RN)
1 50972-20-8/BI
(50972-20-8/RN)
1 530-62-1/BI
(530-62-1/RN)
1 53064-79-2/BI
(53064-79-2/RN)
1 56-37-1/BI
(56-37-1/RN)
1 590-97-6/BI
(590-97-6/RN)
1 682747-70-2/BI
(682747-70-2/RN)
1 682747-74-6/BI
(682747-74-6/RN)
1 683251-13-0/BI
(683251-13-0/RN)
1 683251-19-6/BI
(683251-19-6/RN)
1 683251-21-0/BI
(683251-21-0/RN)
1 683251-24-3/BI
(683251-24-3/RN)
1 683251-28-7/BI
(683251-28-7/RN)
1 683251-31-2/BI
(683251-31-2/RN)
1 683251-33-4/BI
(683251-33-4/RN)
1 683251-34-5/BI
(683251-34-5/RN)
1 683251-37-8/BI
(683251-37-8/RN)
1 683251-39-0/BI
(683251-39-0/RN)
1 683251-42-5/BI
(683251-42-5/RN)
1 683251-45-8/BI
(683251-45-8/RN)
1 683251-48-1/BI
(683251-48-1/RN)
1 683251-50-5/BI
(683251-50-5/RN)
1 683251-53-8/BI
(683251-53-8/RN)
1 683251-62-9/BI
(683251-62-9/RN)
1 7087-68-5/BI
(7087-68-5/RN)
1 75-05-8/BI
(75-05-8/RN)
1 80715-22-6/BI
(80715-22-6/RN)
1 82504-50-5/BI

```
                (82504-50-5/RN)
             1 89838-66-4/BI
                (89838-66-4/RN)
             1 90776-58-2/BI
                (90776-58-2/RN)
             1 93457-76-2/BI
                (93457-76-2/RN)
             1 95775-10-3/BI
                (95775-10-3/RN)
             1 98298-66-9/BI
                (98298-66-9/RN)
             1 99464-83-2/BI
                (99464-83-2/RN)
L13         44 (103418-33-3/BI OR 103418-34-4/BI OR 108-48-5/BI OR 109-99-9/BI
               OR 1112-67-0/BI OR 121-44-8/BI OR 141-82-2/BI OR 35180-01-9/BI
               OR 40510-86-9/BI OR 40930-71-0/BI OR 50893-36-2/BI OR 50972-20-8
               /BI OR 530-62-1/BI OR 53064-79-2/BI OR 56-37-1/BI OR 590-97-6/BI
                OR 682747-70-2/BI OR 682747-74-6/BI OR 683251-13-0/BI OR 683251
               -19-6/BI OR 683251-21-0/BI OR 683251-24-3/BI OR 683251-28-7/BI
               OR 683251-31-2/BI OR 683251-33-4/BI OR 683251-34-5/BI OR 683251-
               37-8/BI OR 683251-39-0/BI OR 683251-42-5/BI OR 683251-45-8/BI
               OR 683251-48-1/BI OR 683251-50-5/BI OR 683251-53-8/BI OR 683251-
               62-9/BI OR 7087-68-5/BI OR 75-05-8/BI OR 80715-22-6/BI OR 82504-
               50-5/BI OR 89838-66-4/BI OR 90776-58-2/BI OR 93457-76-2/BI OR
               95775-10-3/BI OR 98298-66-9/BI OR 99464-83-2/BI)

=> d his

     (FILE 'HOME' ENTERED AT 08:55:53 ON 16 APR 2008)

     FILE 'REGISTRY' ENTERED AT 08:56:05 ON 16 APR 2008
                E MALONIC ACID/CN
                E E12
                E E12
                E E12
L1              1 E4
                E PRPANDIOIC ACID, ETHYL ESTER/CN
                E POPANDIOIC ACID, ETHYL ESTER/CN
                E PROPANEDIOIC ACID, ETHYL ESTER/CN
                E PROPANEDIOIC ACID, METHYL ESTER/CN
L2              1 E3

     FILE 'CAPLUS' ENTERED AT 08:59:56 ON 16 APR 2008
L3        1653089 L
L4              2 L2

     FILE 'REGISTRY' ENTERED AT 09:17:55 ON 16 APR 2008
L5                STRUCTURE UPLOADED
L6              0 SEARCH L5 SSS SAM
L7             19 SEARCH L5 SSS FULL

     FILE 'CAPLUS' ENTERED AT 09:19:56 ON 16 APR 2008
L8             14 L7

     FILE 'REGISTRY' ENTERED AT 09:23:16 ON 16 APR 2008
                E PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER/CN
L9              1 E3

     FILE 'CAPLUS' ENTERED AT 09:24:09 ON 16 APR 2008
L10             1 L9
                  SEL L10
```

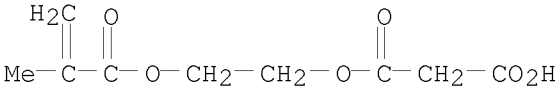
```
     FILE 'REGISTRY' ENTERED AT 09:26:07 ON 16 APR 2008
L11           0 E1-E5
L12           0 S E1-E5

     FILE 'CAPLUS' ENTERED AT 09:27:14 ON 16 APR 2008
                SEL L10 RN

     FILE 'REGISTRY' ENTERED AT 09:27:37 ON 16 APR 2008
L13          44 S E6-E49

=> l7 not l13
L14          15 L7 NOT L13

=> d scan

L14  15 ANSWERS   REGISTRY  COPYRIGHT 2008 ACS on STN
IN   Poly[oxy(methyl-1,2-ethanediyl)], α-(carboxyacetyl)-ω-[(2-
     methyl-1-oxo-2-propenyl)oxy]-, polymer with ethenylbenzene (9CI)
MF   (C8 H8 . (C3 H6 O)n C7 H8 O5)x
CI   PMS

     CM   1
```



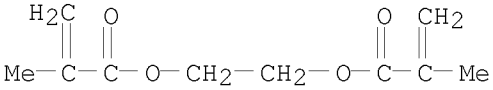
```
     CM   2
```



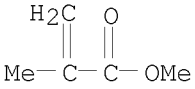
```
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):15

L14  15 ANSWERS   REGISTRY  COPYRIGHT 2008 ACS on STN
IN   Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester,
     polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate) and methyl
     2-methyl-2-propenoate (9CI)
MF   (C10 H14 O4 . C9 H12 O6 . C5 H8 O2)x
CI   PMS

     CM   1
```



```
     CM   2
```

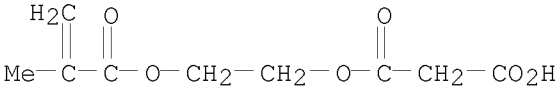


CM 3

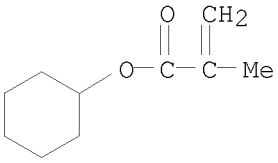


L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, 1-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl] ester, polymer with cyclohexyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate
MF (C10 H16 O2 . C9 H12 O6 . C5 H8 O2)x
CI PMS

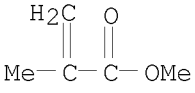
CM 1



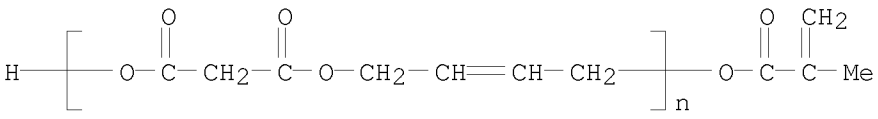
CM 2



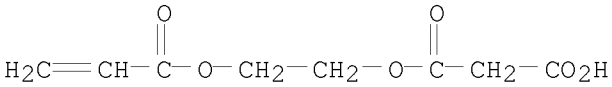
CM 3



L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Poly[oxy(1,3-dioxo-1,3-propanediyl)oxy-2-butene-1,4-diyl], α-hydro-ω-[(2-methyl-1-oxo-2-propenyl)oxy]- (9CI)
MF (C7 H8 O4)n C4 H6 O2
CI PMS, COM



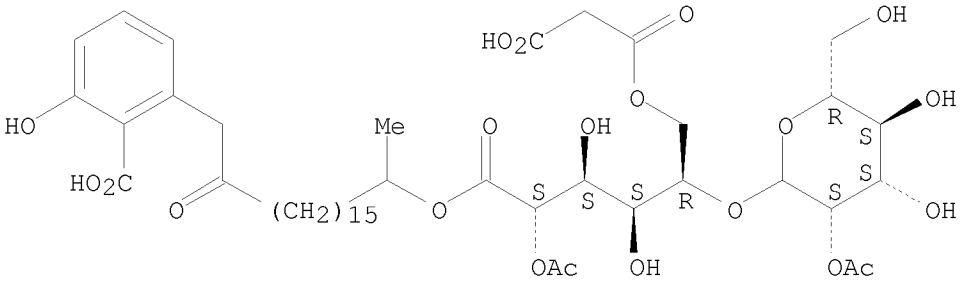
L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester (9CI)
MF C8 H10 O6
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN D-Mannonic acid, 5-O-(2-O-acetyl-D-mannopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyl-17-oxooctadecyl ester, 2-acetate 6-(hydrogen propanedioate)
MF C45 H68 O21

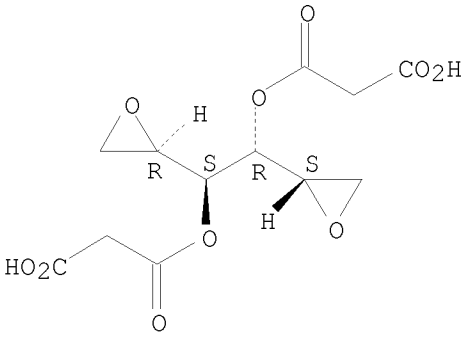
Absolute stereochemistry. Rotation (-).
Currently available stereo shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Galactitol, 1,2:5,6-dianhydro-, bis(hydrogen propanedioate) (9CI)
MF C12 H14 O10

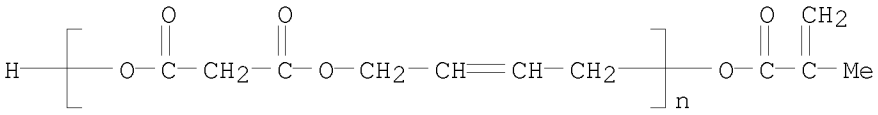
Relative stereochemistry.



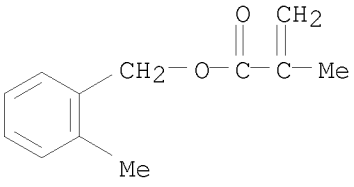
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2-Propenoic acid, 2-methyl-, (2-methylphenyl)methyl ester, polymer with α-hydro-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy(1,3-dioxo-1,3-propanediyl)oxy-2-butene-1,4-diyl] (9CI)
MF (C12 H14 O2 . (C7 H8 O4)n C4 H6 O2)x
CI PMS

CM 1

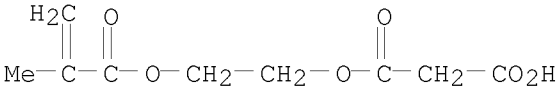


CM 2



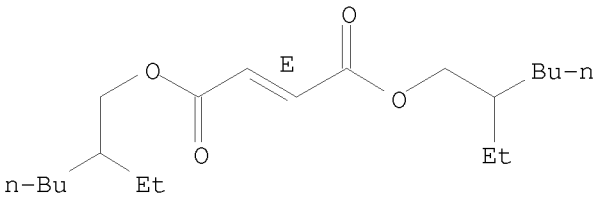
L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2-Butenedioic acid (2E)-, bis(2-ethylhexyl) ester, polymer with ethenylbenzene, 2,5-furandione and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl hydrogen propanedioate (9CI)
MF (C20 H36 O4 . C9 H12 O6 . C8 H8 . C4 H2 O3)x
CI PMS

CM 1

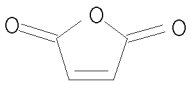


CM 2

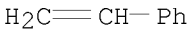
Double bond geometry as shown.



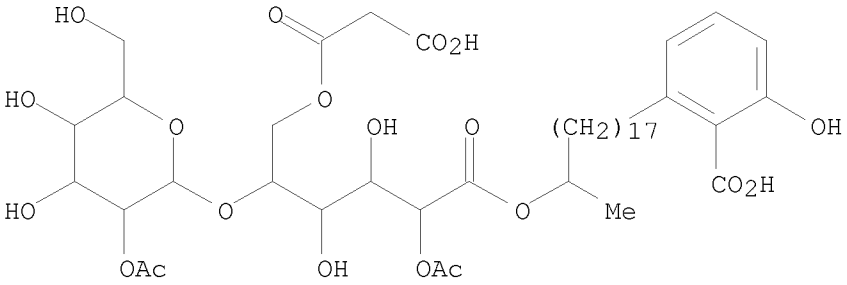
CM 3



CM 4

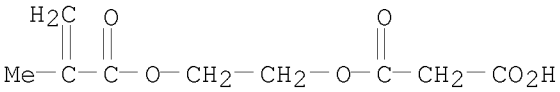


L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Hexonic acid, 5-O-(2-O-acetylhexopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyloctadecyl ester, 2-acetate 6-(hydrogen propanedioate) (9CI)
MF C45 H70 O20



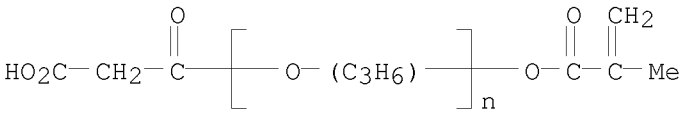
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester (9CI)
MF C9 H12 O6
CI COM



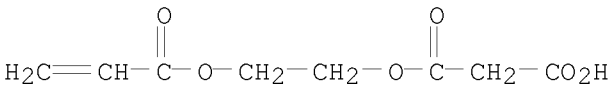
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Poly[oxy(methyl-1,2-ethanediyl)], α-(carboxyacetyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]- (9CI)
MF (C3 H6 O)n C7 H8 O5
CI IDS, PMS, COM



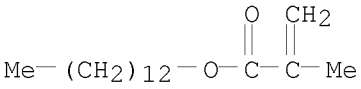
L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2-Propenoic acid, 2-methyl-, tridecyl ester, polymer with dodecyl 2-propenoate and 2-hydroxyethyl 2-propenoate, 2-[(1-oxo-2-propenyl)oxy]ethyl propanedioate (9CI)
MF (C17 H32 O2 . C15 H28 O2 . C5 H8 O3)x . x C8 H10 O6

CM 1

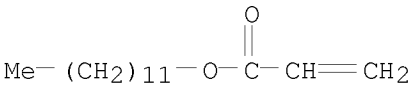


CM 2

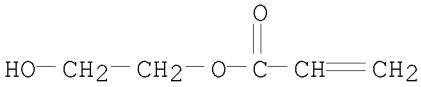
CM 3



CM 4

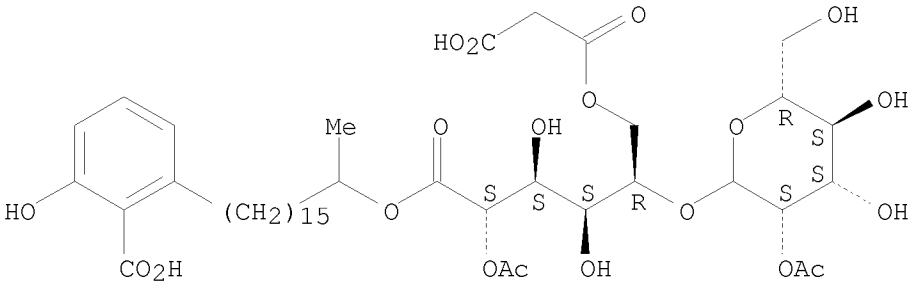


CM 5



L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN D-Mannonic acid, 5-O-(2-O-acetyl-D-mannopyranosyl)-, 16-(2-carboxy-3-hydroxyphenyl)-1-methylhexadecyl ester, 2-acetate 6-(hydrogen propanedioate)
MF C43 H66 O20

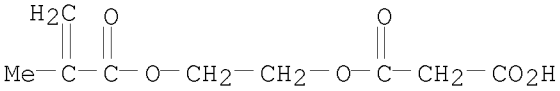
Absolute stereochemistry. Rotation (-).
Currently available stereo shown.



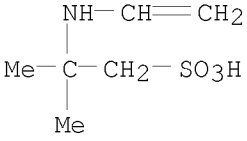
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-(ethenylamino)-2-methyl-1-propanesulfonic acid and methyl 2-propenoate (9CI)
MF (C9 H12 O6 . C6 H13 N O3 S . C4 H6 O2)x
CI PMS

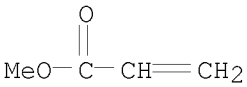
CM 1



CM 2



CM 3



ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.68	293.73

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.40

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:32:20 ON 16 APR 2008